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ORIGINAL

Serial

Current Federal Aid Research Report

WILDLIFE

COMPLETED

300

March 1981

U.S. Fish & Wildlife Service
Division of Federal Aid

CURRENT FEDERAL AID RESEARCH - WILDLIFE

Introduction

The Current Federal Aid Research (CFAR) report summarizes research activities presently being undertaken by the States utilizing Pittman-Robertson funds. The report has been structured for maximum usefulness by Regional personnel, State planners and project officers, and Fish and Wildlife Service and other researchers. Hopefully, any State proposing or conducting research on a given subject can be informed quickly of related or similar research underway in other States. This edition of CFAR-Wildlife incorporates a number of suggestions which will further facilitate its use.

The report is a cross-reference list by species and habitat which will enable a researcher, planner, or other interested person to quickly obtain a summary of project activities being conducted by State fish and wildlife agencies. The body of CFAR-Wildlife is comprised of two sections. Section I is a summary of information concerning the various ongoing research projects. Section II lists the research objectives referenced in Section I.

Included in this year's edition is a listing of the standards used to select the appropriate study type for each project segment or research module (Appendix I). It is recognized that the technique of assigning a study type to a project segment is somewhat subjective. However, our hope was to minimize error.

A State research distribution table (Appendix II), though not entirely complete, is included to inform researchers and planners how other States may be emphasizing their programs. Again, we tried to be accurate but acknowledge that imperfections may exist.

We hope you find this document useful and we invite your comments and suggestions. Specific questions pertaining to a given project should be directed to the appropriate Regional Office. Comments, requests for additional copies, etc., may be directed to:

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How To Use The Report

Species or category listings in Section I are made according to the groupings described in the table of contents. Project segments covering multiple, yet similar categories may have been combined (e.g., swans/ Canada geese/ducks = waterfowl).

After examining the species listings, the user should become familiar with the format example which explains the layout for project segments presented in Section I. Also shown in the format example is the Key to be used when determining the fiscal year quarter in which the project segment will end.

The REF #, an administrative identification code having no meaning outside of CFAR, refers the user to the objectives printed in Section II. The REF # is not necessarily sequential.

This year, each project segment's or research module's objective is headed by a species category. This information, by employing the table of contents, permits quick back referencing to project information in Section I.

CFAR - WILDLIFE

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FORMAT EXAMPLE

CURRENT FEDERAL AID RESEARCH - WILDLIFE

March 1981------------------Edition Date
Wild Sheep------------------Species Category

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST $1000's	QUARTER PROJECT ENDS	REF #
Range Land	Game Surveys Bighorn Sheep Harvest	W-93-R-22	5-4	15	2	NM 25

Project title

Species in project

General category of research

Use this code to locate objectives in Section II.

FY QUARTER PROJECT ENDS	Project ends by:
0	Dec. 31, 1980
1	Mar. 31, 1981
2	Jun. 30, 1981
3	Sept. 30, 1981
4	Dec. 31, 1981
5	Mar. 31, 1982
6	Jun. 30, 1982

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Section I

Project Data

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
INDOOR LAB	STATEWIDE WILDLIFE INVESTIGATIONS FOOD HABITS	W-35-28	V	6	3	AL 04
RANGE LAND	GAME RANGE RESTORATION STUDIES MULE DEER/VEGETATION PLANT PRODUCTION	W-82-R-26	IV	12	1	UT 10
MIXED RANGE	BIG GAME - LIVESTOCK RELATIONSHIPS MULE DEER/ELK/VEGETATION FOOD HABITS	W-105-R-17	4Y	19	1	UT 18
FOREST LAND	HABITAT MANAGEMENT INVESTIGATIONS TURKEY/CLEARCUTTING FORESTRY-DEGRADATION	W-69-R-1	II	3	2	VA 15
CONIFERS	STATEWIDE WILDLIFE INVESTIGATIONS PLANT CONTROL	W-35-28	IX	6	3	AL 07
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE INVESTIGATIONS BASIC SURVEY	W-35-28	VIII	6	3	AL 06
MULTIPLE HABITATS	STATEWIDE WILDLIFE INVESTIGATIONS SEEDS FOOD HABITS	W-35-28	V	6	3	AL 04

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TERRESTRIAL PLANTS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
SHRUB-BRUSH RANGE	GAME RANGE RESTORATION STUDIES DEER/VEGETATION PLANT CONTROL	W-82-R-26	IX	10	1	UT 14
	GAME RANGE RESTORATION STUDIES DEER/RABBIT/VEGETATION FOOD HABITS	W-82-R-26	VIII	12	1	UT 13
	GAME RANGE RESTORATION STUDIES DEER/ELK/VEGETATION PLANT CONTROL	W-82-R-26	VII	14	1	UT 12
MIXED RANGE	BIG GAME - LIVESTOCK RELATIONSHIPS MULE DEER/ELK/VEGETATION FOOD PRODUCTION	W-105-R-17	A-4S	10	1	UT 15
MULTIPLE HABITATS	FOREST WILDLIFE RESEARCH WT DEER/BL BEAR/ELK/ALL VEGETATION PLANNING	W-117-R-14	11	33	3	MI 05

MAR 1981
AQUATIC PLANTS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
BAYS/ESTUARIES	WILDLIFE HABITAT INVESTIGATIONS AQUATIC VEGETATION WATER QUANTITY	W-69-R-1	I	7	2	VA 14
WETLANDS	WILDLIFE INVESTIGATIONS WETLANDS/AQUATIC VEGETATION PLANT CONTROL	W-16-R-30	V	8	2	DE 05

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GRASSES

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
CROP/PASTURE LAND	STATEWIDE WILDLIFE RESEARCH FOOD PRODUCTION	W-141-R-16	109	7	2	WI 01
	COOPERATIVE WILDLIFE RESEARCH PHEASANT/GRASSES REPRODUCTION	W-66-R-21	I-C	4	2	IL 26
MIXED RANGE	MULE DEER HABITAT STUDIES MULE DEER/WHEAT GRASS FOOD HABITS	W-105-R-17	4X	11	1	UT 17

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SHRUBS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
SHRUB-BRUSH RANGE	GAME RANGE RESTORATION STUDIES MULE DEER/ELK/VEGETATION PLANT PRODUCTION	W-82-R-26	VI	14	1	UT 11
HARDWOODS (DECIDUOUS)	FOREST WILDLIFE RESEARCH WHITE-TAILED DEER/SHRUBS FOOD PRODUCTION	W-117-R-14	6	143	3	WI 02

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	GAME POPULATION TREND & HARVEST SURVEY RESEARCH TECHNIQUES	W-35-R-22	IX-1	9	2	MA 01
	COOPERATIVE WILDLIFE RESEARCH HICKORY HABITATS-GENERAL	W-66-R-21	VI-F	8	2	IL 35

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MIXED RANGE	BIG GAME - LIVESTOCK RELATIONSHIPS MULE DEER/ELK/VEGETATION FOOD HABITS	W-105-R-17	4Z	6	1	UT 19

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
LABORATORY	GAME INVESTIGATIONS OPOSSUM/COTTONTAIL/WOODCHUCK/COON/DEER/DISEASE/ETC DISEASES/PARASITES	W-67-R-1	VI	11	2	VA	08
	OREGON WILDLIFE RESEARCH MORTALITY	W-69-R-1	I	22	2	OR	02
	WILDLIFE DISEASE INVESTIGATIONS WILDLIFE/DISEASE DISEASES/PARASITES	W-134-R	2	1	2	CO	22
	WILDLIFE DISEASE INVESTIGATIONS DISEASES/PARASITES	W-134-R	U	5	2	CO	21
INDOOR LAB	WILDLIFE MANAGEMENT SURVEYS DISEASE/ELK/BISON/BIGHORN SHEEP/ANTELOPE DISEASES/PARASITES	W-95-R-15	IXX	13	2	SD	16
MULTIPLE HABITATS	SE COOPERATIVE WILDLIFE DISEASE STUDY DISEASE/WILDLIFE DISEASES/PARASITES	W-28-24	1	6	2	TN	01
	COOPERATIVE WILDLIFE DISEASE STUDY WILDLIFE/DISEASE DISEASES/PARASITES	W-29-24	A	6	2	SC	06
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS DISEASE/WHITETAILS DISEASES/PARASITES	W-67-R-21	A-IV	12	2	ND	38
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS DISEASE/SMALL MAMMALS DISEASES/PARASITES	W-67-R-21	A-III	14	2	ND	37
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS DISEASE/GAME SPECIES MORTALITY	W-67-R-21	A-II	14	2	ND	36
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS DISTEMPER/FOX/SKUNK/COYOTE/RACCOON DISEASES/PARASITES	W-67-R-21	A-I	7	2	ND	35
	STATEWIDE WILDLIFE MANAGEMENT WILDLIFE AND DISEASE DISEASES/PARASITES	W-45-12	WDRI	8	2	KY	11

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
	GAME INVESTIGATIONS DISEASE/GAME/FURBEARERS DISEASES/PARASITES	W-67-R-1	I	30	2	VA	03
	BIG GAME RESEARCH BLACK BEAR/WHITE-TAILED DEER/DISEASE DISEASES/PARASITES	W-44-R-10	I	6	2	WV	04
	STATEWIDE WILDLIFE RESEARCH WILDLIFE AND DISEASE DISEASES/PARASITES	W-41-28	IX	26	2	FL	02
	WILDLIFE DISEASE STUDY ALL WILDLIFE/DISEASE DISEASES/PARASITES	W-28-24	28-24	6	2	GA	33
	WILDLIFE INVESTIGATIONS LABORATORY UPLAND GAME/WATERFOWL/NONGAME/PARASITES DISEASES/PARASITES	W-52-R-25	I	93	2	CA	10
NOT APPLICABLE	MORTALITY & DISEASE INVESTIGATIONS WILDLIFE AND DISEASE MORTALITY	W-13-R-37	S	9	1	NB	14

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INSECTS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MULTIPLE HABITATS	STATEWIDE WILDLIFE RESEARCH TICKS DISEASES/PARASITES	W-26-R-12	XXIX	27	2	IN 16

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MAMMALS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
LABORATORY	GAME INVESTIGATIONS OPOSSUM/COTTONTAIL/RATS/MICE/RACCOON/QUAIL/DISEASE DISEASES/PARASITES	W-67-R-1	V	8	2	VA 07
MULTIPLE HABITATS	VIRGIN ISLANDS FISH & WILDLIFE PROGRAM EXOTIC BIRDS AND MAMMALS RESEARCH TECHNIQUES	FW-3-1	IIA-3	5	3	VI 09

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OPPOSSUM

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE SURVEYS POPULATIONS	W-49-R-28	10	1	2	IL 18

MAR 1981 CURRENT FEDERAL AID RESEARCH - WILDLIFE
BATS

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	STATEWIDE WILDLIFE RESEARCH BATS/MICE LIFE HISTORY	W-120-R-12	NG 1	26	2	MT 10

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HARE/RABBIT/PIKA

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
SHRUB-BRUSH RANGE	GAME RANGE RESTORATION STUDIES DEER/RABBIT/VEGETATION FOOD HABITS	W-82-R-26	VIII	12	1	UT 13

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SNOWSHOE HARE

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MIXED CONIF/HARDWOOD	WILDLIFE ECOLOGY, BEHAVIOR & HABITAT IMPROVEMENT BASIC SURVEY	W-105-R	X	11	1	NY 25

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
AGRICULTURAL LAND	UPLAND WILDLIFE INVESTIGATIONS MORTALITY	W-47-R-10	IV	3	2	MO	03
	STATEWIDE WILDLIFE SURVEYS POPULATIONS	W-49-R-28	1	10	2	IL	09
	STATEWIDE WILDLIFE RESEARCH FOOD PRODUCTION	W-141-R-16	114	4	2	WI	03
CROP/PASTURE LAND	WILDLIFE MANAGEMENT STUDIES BASIC SURVEY	W-57-6	C3	10	3	NC	10
FISH HATCHERY	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HARVEST	W-67-R-21	B-XII	2	2	ND	08
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE RESEARCH PROJECT BOBWHITE AND COTTONTAIL HARVEST	W-38-17	II	1	2	SC	02
MULTIPLE HABITATS	SURVEY & INVENTORY - SMALL GAME COTTONTAILS AND SQUIRRELS HARVEST	W-15-R-37	F	3	1	NB	05
	UPLAND GAME INVESTIGATIONS SQUIRREL/RABBIT/TURKEY/QUAIL/PHEASANT/R & S GROUSE POPULATIONS	W-47-R-29	II	17	2	CA	03

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE RESEARCH BATS/MICE LIFE HISTORY	W-120-R-12	NG 1	26	2	MT 10
	FOREST WILDLIFE RESEARCH RODENTS/PLANT ECOLOGY PLANT CONTROL	W-105-R-22	11	3	2	OH 09

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MIXED RANGE	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS STOCKING	W-67-R-21	F-I	6	2	ND 28

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
FOREST LAND	UPLAND GAME INVESTIGATIONS GRAY AND FOX SQUIRRELS FORESTRY-DEGRADATION	W-108-R-4	24-28	2	0	TX	17
	UPLAND GAME INVESTIGATIONS GRAY AND FOX SQUIRRELS SYSTEMATICS	W-108-R-4	23-27	1	0	TX	16
	STATEWIDE WILDLIFE SURVEYS GRAY AND FOX SQUIRREL LIFE HISTORY	W-49-R-28	2	3	2	IL	10
HARDWOODS (DECIDUOUS)	COOPERATIVE WILDLIFE RESEARCH GRAY AND FOX SQUIRRELS HABITATS-GENERAL	W-66-R-21	VI-H	5	2	IL	36
MIXED CONIF/HARDWOOD	STATEWIDE WIL[illegible]E SURVEYS & INVESTIGATIONS HARVEST	W-67-R-21	BXIII	4	2	ND	09
MULTIPLE HABITATS	SURVEY & INVENTORY - SMALL GAME COTTONTAILS AND SQUIRRELS HARVEST	W-15-R-37	F	3	1	NB	05
	UPLAND GAME INVESTIGATIONS SQUIRREL/RABBIT/TURKEY/QUAIL/PHEASANT/R & S GROUSE POPULATIONS	W-47-R-29	II	17	2	CA	03

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GRAY SQUIRREL

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
HARDWOODS (DECIDUOUS)	STATEWIDE WILDLIFE RESEARCH GRAY SQUIRREL/RUFFED GROUSE/WILD TURKEY HARVEST	W-26-R-12	XVI	15	2	IN 08
	FOREST GAME RESEARCH POPULATIONS	W-39-R-23	X	2	2	WV 03

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FOX SQUIRREL

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	COOPERATIVE WILDLIFE RESEARCH REPRODUCTION AID	W-66-R-21	VI-B	6	2	IL 33

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BEAVER

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
WETLANDS	STATEWIDE WILDLIFE SURVEYS MIGRATION	W-49-R-28	9	4	2	IL 17
	FURBEARER RESEARCH BASIC SURVEY	W-59-R-4	IV	11	4	NJ 10

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CARNIVORES

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
INDOOR LAB	ALASKA WILDLIFE RESEARCH CARNIVORES AND BIG GAME DISEASES/PARASITES	W-21-2	A18.3	10	2	AK	33

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CANIDS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
MULTIPLE HABITATS	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS FOX AND COYOTE HARVEST	W-67-R-21	E-II	15	2	ND	24

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WOLF

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
	ALASKA WILDLIFE RESEARCH MIGRATION	W-21-2	14B14	6	2	AK	29
NOT APPLICABLE	ALASKA WILDLIFE RESEARCH MOOSE/BROWN BEAR/WOLVES RESEARCH TECHNIQUES	W-21-2	IF130	14	2	AK	27

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COYOTE

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
LABORATORY	STATEWIDE WILDLIFE SURVEY FOOD HABITS	W-9-R-34	IV	8	2	NH	04
MULTIPLE HABITATS	FURBEARER RESEARCH POPULATIONS	W-59-R-4	VI	2	4	NJ	12
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS SYSTEMATICS	W-67-R-21	E-VI	16	2	ND	27
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS WHITETAILS/COYOTES MORTALITY	W-67-R-21	EVIII	12	2	ND	39
	STATEWIDE WILDLIFE SURVEYS POPULATIONS	W-49-R-28	14	2	2	IL	22
	WILDLIFE RESEARCH & SURVEYS IN IOWA POPULATIONS	W-115-R-8	11	10	3	IA	11
	SURVEYS & RESEARCH FURBEARERS AND COYOTES BASIC SURVEY	W-55-R-2	1	53	3	KS	08
	STATEWIDE WILDLIFE SURVEYS FOOD HABITS	W-47-3	V	13	2	GA	22

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE INVESTIGATIONS RED FOX MORTALITY	W-48-28	XIII	27	2	MS 10
	WILDLIFE MANAGEMENT STUDIES RACCOON/FOX HARVEST	W-57-6	C2	19	3	NC 09
TUNDRA	ALASKA WILDLIFE RESEARCH POPULATIONS	W-21-2	19A19	6	2	AK 23
MULTIPLE HABITATS	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS POPULATIONS	W-67-R-21	E-III	8	2	ND 25
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HARVEST	W-67-R-21	E-IV	14	2	ND 26
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS POPULATIONS	W-67-R-21	E-VII	4	2	ND 33
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS ANIMAL CONTROL	W-67-R-21	E-V	8	2	ND 32
	STATEWIDE WILDLIFE RESEARCH POPULATIONS	W-141-R-16	118	2	2	WI 06
NOT APPLICABLE	STATEWIDE WILDLIFE SURVEYS POPULATIONS	W-49-R-28	13	1	2	IL 21

FERAL DOG

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
MULTIPLE HABITATS	STATEWIDE WILDLIFE RESEARCH WHITE-TAILED DEER AND DOGS FOOD HABITS	W-26-R-12	III-3	14	2	IN	19

BEAR

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
CONIFERS	ALASKA WILDLIFE RESEARCH MORTALITY	W-21-2	4A414	41	2	AK	15
	ALASKA WILDLIFE RESEARCH NOT APPLICABLE	W-21-2	4A412	45	1	AK	14
MULTIPLE HABITATS	STATEWIDE WILDLIFE RESEARCH BASIC SURVEY	W-141-R-16	222	4	2	WI	19

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BLACK BEAR

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
FOREST LAND	STATEWIDE WILDLIFE RESEARCH HARVEST	W-141-R-16	215	5	2	WI	14
	BIG GAME RESEARCH RESEARCH TECHNIQUES	W-44-R-10	IV	12	2	WV	06
	WILDLIFE RESEARCH POPULATIONS	W-160-R-8	X	53	2	ID	08
	BIG GAME RESEARCH HARVEST	W-67-R-11	184	10	3	ME	01
	TRI-STATE BLACK BEAR PROJECT PLANNING	W-48-5	IV	30	2	TN	15
	BLACK BEAR STUDIES BASIC SURVEY	W-77-R-2	I	18	2	NH	17
	BIG GAME MANAGEMENT INVESTIGATIONS PLANNING	W-89-R-25	X	60	1	NY	22
HARDWOODS (DECIDUOUS)	TRI-STATE BLACK BEAR PROJECT BASIC SURVEY	W-46-5	II	4	2	GA	17
	STATEWIDE WILDLIFE INVESTIGATIONS POPULATIONS	W-37-20	B-11	17	2	GA	37
CONIFERS	ALASKA WILDLIFE RESEARCH BLACK BEAR AND MOOSE POPULATIONS	W-21-2	17B17	29	2	AK	22
	ALASKA WILDLIFE RESEARCH POPULATIONS	W-21-2	17A17	36	2	AK	21
	ALASKA WILDLIFE RESEARCH REPRODUCTION	W-21-2	17A17	5	2	AK	32

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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE RESEARCH BASIC SURVEY	W-41-28	XXVI	9	2	FL	10
	BIG GAME INVESTIGATIONS POPULATIONS	W-51-R-26	IV	73	2	CA	09
	WILDLIFE MANAGEMENT STUDIES HARVEST	W-57-6	B2	24	3	NC	06
	WILDLIFE MANAGEMENT STUDIES HARVEST	W-57-6	B1	31	3	NC	05
MULTIPLE HABITATS	BIG GAME MANAGEMENT INVESTIGATIONS LIFE HISTORY	W-89-R-25	VIII	28	1	NY	20
	FURBEARER RESEARCH POPULATIONS	W-59-R-4	VII	2	4	NJ	13
	STATEWIDE WILDLIFE INVESTIGATIONS & SURVEYS BLACK BEAR/COUGAR HARVEST	W-65-RD-29	A-7	8	3	UT	05
	STATEWIDE WILDLIFE SURVEYS & INVENTORIES BASIC SURVEY	W-170-R-5	13	2	2	ID	26
	BLACKBEAR INVESTIGATIONS LIFE HISTORY	W-65-R-1	I-A	11	2	VA	01
	STATEWIDE INVESTIGATIONS HARVEST	W-53-R-31	3-5	29	2	AZ	29
	STATEWIDE WILDLIFE RESEARCH FOOD HABITS	W-41-28	28	2	2	FL	11

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MAR 1981
GRIZZLY BEAR

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
LABORATORY	STATEWIDE WILDLIFE RESEARCH MT. LIONS/GRIZZLY BEARS HARVEST	W-120-R-12	WL 1	61	2	MT 12
TUNDRA	ALASKA WILDLIFE RESEARCH CARIBOU/GRIZZLY BEAR ANIMAL CONTROL	W-21-2	4D415	41	2	AK 28

MAR 1981
BROWN BEAR

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
NOT APPLICABLE	ALASKA WILDLIFE RESEARCH MOOSE/BROWN BEAR/WOLVES RESEARCH TECHNIQUES	W-21-2	IF130	14	2	AK 27

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
INDOOR LAB	STATEWIDE WILDLIFE INVESTIGATIONS RACCOON BASIC SURVEY	W-48-28	XII	22	2	MS	09
AGRICULTURAL LAND	STATEWIDE WILDLIFE RESEARCH LIFE HISTORY	W-26-R-12	XXXII	12	2	IN	18
HARDWOODS (DECIDUOUS)	WILDLIFE MANAGEMENT INVESTIGATIONS HARVEST	W-46-9	IVF	42	2	TN	11
	WILDLIFE MANAGEMENT STUDIES STOCKING	W-57-6	C4	10	3	NC	11
MIXED CONIF/HARDWOOD	WILDLIFE MANAGEMENT STUDIES RACCOON/FOX HARVEST	W-57-6	C2	19	3	NC	09
	STATEWIDE WILDLIFE INVESTIGATIONS RACCOON BASIC SURVEY	W-48-28	XII	22	2	MS	09
MULTIPLE HABITATS	STATEWIDE WILDLIFE RESEARCH LIFE HISTORY	W-26-R-12	XII	5	2	IN	04
	WILDLIFE RESEARCH & SURVEYS IN IOWA POPULATIONS	W-115-R-8	22	2	3	IA	22
	FURBEARER RESEARCH BASIC SURVEY	W-46-R-6	V	57	2	WV	07
NOT APPLICABLE	STATEWIDE WILDLIFE SURVEYS POPULATIONS	W-49-R-28	12	2	2	IL	20

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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
CONIFERS	ALASKA WILDLIFE RESEARCH POPULATIONS	W-21-2	7C711	31	2	AK 31

MAR 1981
BADGER

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
AGRICULTURAL LAND	STATEWIDE WILDLIFE SURVEYS POPULATIONS	W-49-R-28	7	2	2	IL 15

MAR 1981
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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MULTIPLE HABITATS	STATEWIDE WILDLIFE SURVEYS POPULATIONS	W-49-R-28	11	1	2	IL 19

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
WATER (MULTI-AQUATIC)	FURBEARER RESEARCH POPULATIONS	W-59-R-4	V	9	4	NJ	11
	STATEWIDE WILDLIFE RESEARCH HARVEST	W-141-R-16	220	9	2	WI	17
STREAMS/CANALS	STATEWIDE GAME MANAGEMENT SURVEY STOCKING	W-53-R-31	6-4	17	2	AZ	10
WETLANDS	SMALL GAME MAMMALS & FURBEARER INVESTIGATIONS BASIC SURVEY	W-71-R-1	V	7	2	VA	24
MULTIPLE HABITATS	SMALL GAME MAMMALS & FURBEARER INVESTIGATIONS BOBCAT/OTTER POPULATIONS	W-71-R-1	III	4	2	VA	22

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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MIXED CONIF/HARDWOOD	NATIVE CATS OF WASHINGTON BOBCAT/MT. LION/LYNX BASIC SURVEY	W-84-R-8	1	71	3	WA 07
MULTIPLE HABITATS	STATEWIDE WILDLIFE INVESTIGATIONS & SURVEYS BLACK BEAR/COUGAR HARVEST	W-65-RD-29	A-7	8	3	UT 05

MAR 1981
MOUNTAIN LION

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
LABORATORY	STATEWIDE WILDLIFE RESEARCH MT. LIONS/GRIZZLY BEARS HARVEST	W-120-R-12	WL 1	61	2	MT 12
FOREST LAND	NEVADA STATEWIDE WILDLIFE PROGRAM POPULATIONS	W-48-R-12	R-V	53	2	NV 04
MULTIPLE HABITATS	STATEWIDE WILDLIFE SURVEYS & INVENTORIES BASIC SURVEY	W-170-R-5	12	2	2	ID 25

MAR 1981
BOBCAT

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
FOREST LAND	NEVADA STATEWIDE WILDLIFE PROGRAM POPULATIONS	W-48-R-12	R-XVI	14	2	NV 05
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HARVEST	W-67-R-21	F-II	6	2	ND 34
	FURBEARER RESEARCH HARVEST	W-59-R-4	II	2	4	NJ 08
	STATEWIDE WILDLIFE POPULATION SURVEY LIFE HISTORY	W-76-R-3	II	8	2	NH 16
	STATEWIDE WILDLIFE POPULATION SURVEY LIFE HISTORY	W-76-R-3	II	8	2	NH 16
	STATEWIDE WILDLIFE RESEARCH POPULATIONS	W-141-R-16	218	6	2	WI 16
	STATEWIDE WILDLIFE RESEARCH HARVEST	W-41-28	XXIII	19	2	FL 03
MIXED CONIF/HARDWOOD	WILDLIFE MANAGEMENT SURVEYS POPULATIONS	W-95-R-15	XVI	9	2	SD 13
MULTIPLE HABITATS	SMALL GAME MAMMALS & FURBEARER INVESTIGATIONS BOBCAT/OTTER POPULATIONS	W-71-R-1	III	4	2	VA 22
	SMALL GAME MAMMALS & FURBEARER INVESTIGATIONS BASIC SURVEY	W-71-R-1	IV	8	2	VA 23

MAR 1981
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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
FOREST LAND	FISH & WILDLIFE INVESTIGATIONS GUAM DEER AND WILD PIG BASIC SURVEY	FW-2-R	W-1	17	3	GU 01

MAR 1981
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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
RANGE LAND	STATEWIDE GAME MANAGEMENT SURVEY STOCKING	W-53-R-31	6-3	49	2	AZ 09
	BIG GAME INVESTIGATIONS JAVELINA HARVEST	W-109-R-4	26-35	84	1	TX 27

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MIXED CONIF/HARDWOOD	WILDLIFE MANAGEMENT INVESTIGATIONS EUROPEAN HOG HARVEST	W-46-9	IVB1	13	2	TN 07
	STATEWIDE WILDLIFE RESEARCH STOCKING	W-41-28	XV	6	2	FL 05
	STATEWIDE WILDLIFE RESEARCH HARVEST	W-41-28	XIV	3	2	FL 04
	STATEWIDE WILDLIFE RESEARCH HARVEST	W-41-28	XIII	47	2	FL 03
MARSH (NON-FORESTED)	STATEWIDE WILDLIFE RESEARCH STOCKING	W-41-28	XVI	14	2	FL 06

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
LABORATORY	WILDLIFE DISEASE INVESTIGATIONS DEER/ANTELOPE/ELK/DISEASE DISEASES/PARASITES	W-134-R	U	5	2	CO	21
	WILDLIFE RESEARCH DEER AND ELK RESEARCH TECHNIQUES	W-160-R-8	V	36	2	ID	04
INDOOR LAB	FIELD TECHNIQUES TO IDENTIFY CERVID BLOOD & TISSUE MANAGEMENT TECHNIQUE	W-44-R-3	1	12	2	NB	12
	ALASKA WILDLIFE RESEARCH RUMINANTS AND DEPENDENT PREDATORS DISEASES/PARASITES	W-21-2	A18.5	44	2	AK	34
SHRUB-BRUSH RANGE	GAME RANGE RESTORATION STUDIES DEER/RABBIT/VEGETATION FOOD HABITS	W-82-R-26	VIII	12	1	UT	13
	GAME RANGE RESTORATION STUDIES DEER/ELK/VEGETATION PLANT CONTROL	W-82-R-26	VII	14	1	UT	12
	GAME RANGE RESTORATION STUDIES DEER/VEGETATION PLANT CONTROL	W-82-R-26	IX	10	1	UT	14
	GAME RANGE RESTORATION STUDIES MULE DEER/ELK/VEGETATION PLANT PRODUCTION	W-82-R-26	VI	14	1	UT	11
	GAME RANGE RESTORATION STUDIES MULE DEER/ELK PLANT PRODUCTION	W-82-R-26	I	23	1	UT	07
MIXED RANGE	BIG GAME - LIVESTOCK RELATIONSHIPS MULE DEER/ELK/VEGETATION FOOD PRODUCTION	W-105-R-17	A-4S	10	1	UT	15
	BIG GAME - LIVESTOCK RELATIONSHIPS MULE DEER/ELK/VEGETATION FOOD HABITS	W-105-R-17	4Y	19	1	UT	18

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
	BIG GAME - LIVESTOCK RELATIONSHIPS MULE DEER/ELK/VEGETATION FOOD HABITS	W-105-R-17	4Z	6	1	UT	19
FOREST LAND	FISH & WILDLIFE INVESTIGATIONS GUAM DEER AND WILD PIG BASIC SURVEY	FW-2-R	W-1	17	3	GU	01
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE INVESTIGATIONS HARVEST	W-37-20	XLVII	3	2	GA	02
	STATEWIDE WILDLIFE INVESTIGATIONS HARVEST	W-37-20	XLIII	9	2	GA	01
	BIG GAME HABITAT VALUES DEER/ELK/VEGETATION FORESTRY-DEGRADATION	W-105-R-17	A-4U	2	1	UT	16
	BIG GAME HABITAT VALUES DEER/ELK/VEGETATION FORESTRY-DEGRADATION	W-105-R-17	A-4U	2	1	UT	16
	OREGON WILDLIFE RESEARCH ELK/MULE DEER HABITATS-GENERAL	W-70-R	H23&4	170	2	OR	04
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS MOOSE/ELK HARVEST	W-67-R-21	C-VI	7	2	ND	17
MULTIPLE HABITATS	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS PLANT PRODUCTION	W-67-R-21	C-V	19	2	ND	16
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HARVEST	W-67-R-21	C-I	78	2	ND	12
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS FOOD HABITS	W-67-R-21	C-VII	1	2	ND	18

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	OREGON WILDLIFE RESEARCH ELK/MULE DEER/ANTELOPE PLANNING	W-70-R	A-1	84	2	OR 03
	STATEWIDE WILDLIFE RESEARCH WHITETAIL AND MULE DEER HARVEST	W-95-R-15	VII	36	2	SD 07
	STATEWIDE WILDLIFE INVESTIGATIONS & SURVEYS DEER/ELK LIFE HISTORY	W-65-RD-29	A-2	320	3	UT 02
	WILDLIFE SURVEYS & INVENTORIES MULE DEER AND WHITETAIL POPULATIONS	W-15-R-37	A	51	1	NB 01
	DEER INVESTIGATIONS SIKA DEER SYSTEMATICS	W-48-R-9	XV	0	2	MD 06
	DEER INVESTIGATIONS SIKA DEER SYSTEMATICS	W-43-R-9	XII	0	2	MD 06
	DEER INVESTIGATIONS SIKA DEER SYSTEMATICS	W-48-R-9	XI	28	2	MD 06
	WILDLIFE RESEARCH MULE DEER/ELK MINING POLLUTION	W-160-R-8	XIII	111	2	ID 10
	WILDLIFE RESEARCH & SURVEYS IN IOWA DEER AND SMALL GAME HARVEST	W-115-R-8	13	17	3	IA 13
	FOREST GAME INVESTIGATIONS BASIC SURVEY	W-87-R-2	101	115	2	IL 43
	GAME & FISH RESEARCH DEER/ELK/ANTELOPE MINING POLLUTION	FW-3-R-25	2	13	2	WY 04

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
CONIFERS	ALASKA WILDLIFE RESEARCH FOOD HABITS	W-21-2	19A19	6	2	AK 36
	ALASKA WILDLIFE RESEARCH BLACK BEAR AND MOOSE POPULATIONS	W-21-2	17B17	29	2	AK 22
	ALASKA WILDLIFE RESEARCH MORTALITY	W-21-2	IF127	8	2	AK 08
	ALASKA WILDLIFE RESEARCH MANAGEMENT TECHNIQUE	W-21-2	IE126	42	2	AK 07
TUNDRA	ALASKA WILDLIFE RESEARCH POPULATIONS	W-21-2	IB129	64	2	AK 26
MULTIPLE HABITATS	ALASKA WILDLIFE RESEARCH LIFE HISTORY	W-21-2	IA128	76	2	AK 25
	ALASKA WILDLIFE RESEARCH MANAGEMENT TECHNIQUE	W-21-3	IE119	40	2	AK 05
	ALASKA WILDLIFE RESEARCH MANAGEMENT TECHNIQUE	W-21-2	IE114	32	2	AK 02
	ALASKA WILDLIFE RESEARCH ANATOMY/PHYSIOLOGY	W-21-2	IA121	25	2	AK 01
	STATEWIDE WILDLIFE SURVEYS & INVENTORIES BASIC SURVEY	W-170-R-5	10	9	2	ID 23
NOT APPLICABLE	ALASKA WILDLIFE RESEARCH RESEARCH TECHNIQUES	W-21-2	IF130	14	2	AK 27

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
FOREST LAND	WILDLIFE RESEARCH MIGRATION	W-160-R-8	III	112	2	ID 02
	FOREST WILDLIFE RESEARCH POPULATIONS	W-117-R-14	13	20	3	MI 06
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE RESEARCH FORESTRY-DEGRADATION	W-120-R-12	BG 3	43	2	MT 04
MULTIPLE HABITATS	STATEWIDE WILDLIFE SURVEYS & INVENTORIES BASIC SURVEY	W-170-R-5	5	146	2	ID 18
	WILDLIFE MANAGEMENT SURVEYS POPULATIONS	W-95-R-15	XVII	3	2	SD 14
	STATEWIDE GAME MANAGEMENT SURVEY POPULATIONS	W-53-R-31	3-1	38	2	AZ 03

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
RANGE LAND	BIG GAME INVESTIGATIONS AGE/GROWTH	W-109-R-4	24-33	18	1	TX	26
	GAME RANGE RESTORATION STUDIES MULE DEER/VEGETATION PLANT PRODUCTION	W-82-R-26	IV	12	1	UT	10
MIXED RANGE	MULE DEER HABITAT STUDIES MULE DEER/WHEAT GRASS FOOD HABITS	W-105-R-17	4X	11	1	UT	17
	BIG GAME - LIVESTOCK RELATIONSHIPS MULE DEER/VEGETATION FOOD HABITS	W-105-R-17	5A	10	1	UT	20
	BIG GAME - LIVESTOCK RELATIONSHIPS MULE DEER/VEGETATION FOOD HABITS	W-105-R-17	5A	10	1	UT	20
MULTIPLE HABITATS	STATEWIDE BIG GAME RANGE INVENTORY HABITATS-GENERAL	W-135-R	1	80	2	UT	22
	STATEWIDE WILDLIFE INVESTIGATIONS & SURVEYS DEVELOPMENT-DEGRAD	W-65-RD-29	A-1	26	3	UT	01
	OREGON WILDLIFE RESEARCH MANAGEMENT TECHNIQUE	W-68-R	1	16	2	OR	01
	STATEWIDE WILDLIFE SURVEYS & INVENTORIES BASIC SURVEY	W-170-R-5	6	148	2	ID	19
	WILDLIFE RESEARCH POPULATIONS	W-160-R-8	IV	106	2	ID	03
	STATEWIDE WILDLIFE RESEARCH BASIC SURVEY	W-120-R-12	BG 1	186	2	MT	02

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
INDOOR LAB	ENERGY RELATIONSHIPS OF HOMEOTHERMS ANATOMY/PHYSIOLOGY	W-124-R-13	I	6	1	NY	27
	STATEWIDE RESEARCH PROJECT DISEASES/PARASITES	W-56-21	IV	6	3	AR	04
OUTDOOR LAB-PENS	STATEWIDE WILDLIFE INVESTIGATIONS REPRODUCTION	W-48-28	XIV	6	2	MS	11
AGRICULTURAL LAND	FOREST GAME INVESTIGATIONS BASIC SURVEY	W-63-R-23	VII	14	2	IL	40
	PUBLIC ATTITUDES TOWARD WILDLIFE HARVEST	W-146-R-6	I	8	1	NY	36
CROP/PASTURE LAND	WILDLIFE RESEARCH & SURVEYS IN IOWA LIFE HISTORY	W-115-R-8	23	22	3	IA	23
GAME FARM	FOREST WILDLIFE RESEARCH ANATOMY/PHYSIOLOGY	W-117-R-14	2	51	3	MI	01
FOREST LAND	FOREST WILDLIFE RESEARCH ANATOMY/PHYSIOLOGY	W-117-R-14	14	18	3	MI	07
	WILDLIFE LAW ENFORCEMENT RESEARCH HARVEST	W-121-R-8	21	16	3	MI	17
	WILDLIFE LAW ENFORCEMENT RESEARCH DEER AND LAW ENFORCEMENT HARVEST	W-121-R-8	11	36	3	MI	16

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
	ENERGY RELATIONSHIPS OF HOMEOTHERMS PLANNING	W-124-R-13	II	74	1	NY	28
	FIELD ANALYSIS OF WILDLIFE & CARRYING CAPACITY POPULATIONS	W-51-R-15	I	9	2	NH	13
	BIG GAME MANAGEMENT & RESEARCH HARVEST	W-12-R-34	IX	25	2	NH	09
	BIG GAME MANAGEMENT & RESEARCH DISEASES/PARASITES	W-12-R-34	VIII	12	2	NH	08
	BIG GAME MANAGEMENT & RESEARCH HARVEST	W-12-R-34	IV	2	2	NH	07
	BIG GAME MANAGEMENT INVESTIGATIONS HARVEST	W-89-R-25	XI	1	1	NY	23
	BIG GAME INVESTIGATIONS ANATOMY/PHYSIOLOGY	W-109-R-4	29-38	6	1	TX	30
	BIG GAME INVESTIGATIONS HARVEST	W-109-R-4	28-37	11	1	TX	29
	BIG GAME INVESTIGATIONS WHITETAIL, AXIS, AND SIKA DEER/BLACKBUCK ANTELOPE POPULATIONS	W-109-R-4	X	15	1	TX	25
	STATEWIDE WILDLIFE RESEARCH STOCKING	W-141-R-16	212	10	2	WI	12
HARDWOODS (DECIDUOUS)	STATEWIDE WILDLIFE INVESTIGATIONS BEHAVIOR	W-48-28	XV	17	2	MS	12
	FOREST WILDLIFE RESEARCH WHITE-TAILED DEER/SHRUBS FOOD PRODUCTION	W-117-R-14	6	143	3	MI	02

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	FOREST WILDLIFE RESEARCH WHITE-TAILED DEER/HUNTERS AND RESIDENTS USERS	W-117-R-14	9	128	3	MI 04
CONIFERS	STATEWIDE WILDLIFE INVESTIGATIONS FOOD HABITS	W-29-28	I-4	20	2	LA 02
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE INVESTIGATIONS POPULATIONS	W-29-28	I	90	2	LA 01
	STATEWIDE WILDLIFE MANAGEMENT HARVEST	W-45-12	DSI	24	2	KY 06
	FOREST WILDLIFE RESEARCH RESEARCH TECHNIQUES	W-117-R-14	7	11	3	MI 03
	STATEWIDE WILDLIFE INVESTIGATIONS HARVEST	W-48-28	VII	83	2	MS 07
	SURVEYS & RESEARCH HARVEST	W-23-R-19	VI	37	2	KS 03
	FOREST GAME INVESTIGATIONS MORTALITY	W-63-R-23	IV	31	2	IL 37
	FOREST GAME INVESTIGATIONS WHITE-TAILED DEER/WILD TURKEY HARVEST	W-63-R-23	1	62	2	IL 04
	WILDLIFE MANAGEMENT INVESTIGATIONS HABITATS-GENERAL	W-46-9	IVA2	31	2	TN 06
	WILDLIFE MANAGEMENT INVESTIGATIONS HARVEST	W-46-9	IVA1	97	2	TN 05
	STATEWIDE WILDLIFE RESEARCH PROJECT WHITE-TAILED DEER/WILD TURKEY HARVEST	W-38-17	I	47	2	SC 01

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	FOREST WILDLIFE RESEARCH HARVEST	W-105-R-22	4	53	2	OH 06
	WILDLIFE ECOLOGY, BEHAVIOR & HABITAT IMPROVEMENT BASIC SURVEY	W-105-R	XIII	43	1	NY 26
	WILDLIFE MANAGEMENT STUDIES HARVEST	W-57-6	B4	12	3	NC 08
	WILDLIFE MANAGEMENT STUDIES BASIC SURVEY	W-57-6	B3	65	3	NC 07
	STATEWIDE WILDLIFE RESEARCH HARVEST	W-141-R-16	209	20	2	WI 11
	STATEWIDE WILDLIFE INVESTIGATIONS HARVEST	W-37-20	48	5	2	GA 03
	STATEWIDE WILDLIFE SURVEYS POPULATIONS	W-47-3	III	14	2	GA 20
	STATEWIDE WILDLIFE INVESTIGATIONS HARVEST	W-35-28	II	11	3	AL 02
MULTIPLE HABITATS	STATEWIDE WILDLIFE RESEARCH FOOD HABITS	W-141-R-16	117	7	2	WI 05
	DEER INVESTIGATIONS BASIC SURVEY	W-66-R-1	I	44	2	VA 02
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS BASIC SURVEY	W-67-R-21	C-IV	17	2	ND 15
	BIG GAME MANAGEMENT INVESTIGATIONS POPULATIONS	W-89-R-25	IV	24	1	NY 19

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
	BIG GAME MANAGEMENT INVESTIGATIONS BASIC SURVEY	W-89-R-25	IX	19	1	NY	21
	BIG GAME MANAGEMENT INVESTIGATIONS HARVEST	W-89-R-25	II	73	1	NY	18
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS WHITETAILS/COYOTES MORTALITY	W-67-R-21	EVIII	12	2	ND	39
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS DISEASE/WHITETAILS DISEASES/PARASITES	W-67-R-21	A-IV	12	2	ND	38
	RHODE ISLAND WILDLIFE INVESTIGATIONS POPULATIONS	W-23-R-24	IV	17	1	RI	04
	BIG GAME INVESTIGATIONS AGE/GROWTH	W-109-R-4	VII17	15	1	TX	24
	BIG GAME INVESTIGATIONS AGE/GROWTH	W-109-R-4	VI-16	42	1	TX	23
	BIG GAME INVESTIGATIONS AGE/GROWTH	W-109-R-4	IV	92	1	TX	22
	BIG GAME INVESTIGATIONS	W-109-R-4	27-36	15	1	TX	29
	BIG GAME INVESTIGATIONS HABITATS-GENERAL	W-109-R-4	III	15	1	TX	21
	STATEWIDE WILDLIFE SURVEYS & INVENTORIES BASIC SURVEY	W-170-R-5	7	10	2	ID	20
	FOREST GAME INVESTIGATIONS HEAVY METALS	W-63-R-23	VIII	13	2	IL	41
	FOREST GAME INVESTIGATIONS AGE/GROWTH	W-63-R-23	VI	4	2	IL	39

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
	FOREST GAME INVESTIGATIONS REPRODUCTION	W-63-R-23	V	20	2	IL	39
	STATEWIDE WILDLIFE RESEARCH HARVEST	W-26-R-12	XIII	14	2	IN	05
	STATEWIDE WILDLIFE RESEARCH WHITE-TAILED DEER AND DOGS FOOD HABITS	W-26-R-12	III-3	14	2	IN	19
	STATEWIDE WILDLIFE RESEARCH HARVEST	W-26-R-12	XXV	14	2	IN	13
	WILDLIFE RESEARCH & SURVEYS IN IOWA HARVEST	W-115-R-8	15	18	3	IA	15
	WILDLIFE RESEARCH & SURVEYS IN IOWA POPULATIONS	W-115-R-8	5	5	3	IA	05
	STATEWIDE WILDLIFE RESEARCH BASIC SURVEY	W-120-R-12	BG 2	111	2	MT	03
	FOREST WILDLIFE RESEARCH HARVEST	W-117-R-14	16	79	3	MI	08
	FARMLAND WILDLIFE RESEARCH BASIC SURVEY	W-118-R-14	11	37	3	MI	13
	DEER INVESTIGATIONS BASIC SURVEY	W-48-R-9	I	55	2	MD	05
NOT APPLICABLE	BIG GAME MANAGEMENT & RESEARCH PLANNING	W-12-R-34	XI	5	2	NH	11
	BIG GAME RESEARCH HARVEST	W-44-R-10	II	5	2	WV	05

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MAR 1981
BLACKTAIL DEER

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
CONIFERS	ALASKA WILDLIFE RESEARCH MANAGEMENT TECHNIQUE	W-21-2	IIB26	119	2	AK	09
MIXED CONIF/HARDWOOD	BIG GAME INVESTIGATIONS BLACK-TAILED DEER/BLACK BEAR/ELK/ANTE/SHEEP/LION HABITATS-GENERAL	W-51-R-26	II	3	2	CA	07
MULTIPLE HABITATS	BIG GAME INVESTIGATIONS HABITATS-GENERAL	W-51-R-26	III	11	2	CA	08

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CARIBOU

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
TUNDRA	ALASKA WILDLIFE RESEARCH MORTALITY	W-21-2	3B324	101	2	AK	11
	ALASKA WILDLIFE RESEARCH MIGRATION	W-21-2	3E318	70	2	AK	13
	ALASKA WILDLIFE RESEARCH MORTALITY	W-21-2	3 327	45	2	AK	12
	ALASKA WILDLIFE RESEARCH CARIBOU/GRIZZLY BEAR ANIMAL CONTROL	W-21-2	4D415	41	2	AK	29

40

MAR 1981
PRONGHORN

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
RANGE LAND	STATEWIDE GAME MANAGEMENT SURVEY STOCKING	W-53-R-31	6-1	[illegible]	2	AZ	07
	GAME RESEARCH POPULATIONS	W-70-R-11	I-1	150	2	OR	05
	WILDLIFE RESEARCH LIFE HISTORY	W-160-R-8	XI	69	2	ID	09
MIXED RANGE	SURVEYS & RESEARCH HARVEST	W-23-R-19	VII	9	2	KS	04
	STATEWIDE WILDLIFE RESEARCH LIFE HISTORY	W-120-R-12	BG 4	7	2	MT	05
	WILDLIFE SURVEYS & INVENTORIES - WATERFOWL HARVEST	W-15-R-37	B	20	1	NB	02
	WILDLIFE MANAGEMENT SURVEYS HARVEST	W-95-R-15	VIII	16	2	SD	08
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HARVEST	W-67-R-21	C-II	27	2	ND	13
MULTIPLE HABITATS	STATEWIDE WILDLIFE SURVEYS & INVENTORIES BASIC SURVEY	W-170-R-5	11	16	2	ID	24

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BOVIDS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
FOREST LAND	MTN GOAT & BIGHORN SHEEP STUDY MT. GOAT/BIGHORN SHEEP RESEARCH TECHNIQUES	W-88-R-5	1	78	3	WA	08
TUNDRA	ALASKA WILDLIFE RESEARCH POPULATIONS	W-21-2	19 19	6	2	AK	24

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MOUNTAIN GOAT

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE RESEARCH POPULATIONS	W-120-R-12	BG 6	6	2	MT	03
BARE ROCK-EXPOSED	STATEWIDE WILDLIFE RESEARCH POPULATIONS	W-120-R-12	BG 6	6	2	MT	08
	WILDLIFE MANAGEMENT SURVEYS POPULATIONS	W-95-R-15	XIV	3	2	SD	11
	ALASKA WILDLIFE RESEARCH MIGRATION	W-21-2	12A12	80	2	AK	30
	ALASKA WILDLIFE RESEARCH MANAGEMENT TECHNIQUE	W-21-2	12A12	73	2	AK	20
MULTIPLE HABITATS	STATEWIDE WILDLIFE SURVEYS & INVENTORIES BASIC SURVEY	W-170-R-5	*	6	2	ID	22

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
LABORATORY	BIGHORN SHEEP & MTN GOAT INVESTIGATIONS BIGHORN SHEEP/DISEASE DISEASES/PARASITES	W-41-R-31	3-2	6	2	CO	09
FOREST LAND	WILDLIFE RESEARCH BASIC SURVEY	W-160-R-8	VI	46	2	ID	05
MIXED CONIF/HARDWOOD	BIGHORN SHEEP & MTN GOAT INVESTIGATIONS DISEASES/PARASITES	W-41-R-31	16&25	112	2	CO	08
BARE ROCK-EXPOSED	BIGHORN SHEEP & MTN GOAT INVESTIGATIONS BIGHORN SHEEP/DISEASE DISEASES/PARASITES	W-41-R-31	3-2	6	2	CO	09
	ALASKA WILDLIFE RESEARCH HABITATS-GENERAL	W-21-2	6A612	9	2	AK	18
	ALASKA WILDLIFE RESEARCH POPULATIONS	W-21-2	4A69	74	2	AK	17
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS BIGHORN SHEEP BASIC SURVEY	W-67-R-21	C-III	120	2	ND	14
MULTIPLE HABITATS	STATEWIDE WILDLIFE SURVEYS & INVENTORIES BASIC SURVEY	W-170-R-5	8	19	2	ID	21
	NEVADA STATEWIDE WILDLIFE PROGRAM DESERT BIGHORN STOCKING	W-48-R-12	R-III	12	2	NV	03
	STATEWIDE GAME MANAGEMENT SURVEY STOCKING	W-53-R-31	6-2	44	2	AZ	08

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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
GAME FARM	WILDLIFE MANAGEMENT INVESTIGATIONS PLANNING	W-46-9	IIA	10	2	TN 03
MULTIPLE HABITATS	WILDLIFE MANAGEMENT INVESTIGATIONS HARVEST	W-46-9	IB1	69	2	TN 02
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS DISEASE/SMALL MAMMALS DISEASES/PARASITES	W-67-R-21	A-III	14	2	ND 37
	STATEWIDE WILDLIFE RESEARCH PHEASANT/GROUSE/QUAIL/FURBEARERS POPULATIONS	W-130-R-12	II	163	2	MT 14
	SURVEYS & RESEARCH QUAIL/PRAIRIE CHICKEN/PHEASANT/DOVE/SQUIRREL/RAB. HARVEST	W-23-R-19	X	11	2	KS 05
	WILDLIFE RESEARCH & SURVEYS IN IOWA DEER AND SMALL GAME HARVEST	W-115-R-8	13	17	3	IA 13
	STATEWIDE WILDLIFE RESEARCH RABBIT/SQUIRREL/QUAIL/PHEASANT HARVEST	W-26-R-12	XXIII	13	2	IN 11

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BIG GAME

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
INDOOR LAB	WILDLIFE MANAGEMENT SURVEYS DISEASE/ELK/BISON/BIGHORN SHEEP/ANTELOPE DISEASES/PARASITES	W-95-R-15	IAA	13	2	SD	16
	ALASKA WILDLIFE RESEARCH CARNIVORES AND BIG GAME DISEASES/PARASITES	W-21-2	A18.3	10	2	AK	22
FOREST LAND	BIG GAME INVESTIGATIONS WHITETAIL, AXIS, AND SIKA DEER/BLACKBUCK ANTELOPE POPULATIONS	W-109-R-4	A	15	1	TX	25
CONIFERS	ALASKA WILDLIFE RESEARCH FOOD PRODUCTION	W-21-2	19A19	10	2	AK	37
MULTIPLE HABITATS	STATEWIDE GAME MANAGEMENT SURVEY BIG GAME/MIGRATORY AND GAME BIRDS HARVEST	W-53-R-31	2-1	823	2	AZ	02
	BIG GAME INVESTIGATIONS BLACK-TAILED DEER/BLACK BEAR/ELK/ANTE/SHEEP/LION POPULATIONS	W-51-R-26	I	199	2	CA	06
	WILDLIFE INVESTIGATIONS LABORATORY ELK/DEER/BEAR RESEARCH TECHNIQUES	W-52-R-25	II	65	2	CA	11
	WILDLIFE INVESTIGATIONS LABORATORY BLACK BEAR FOOD HABITS	W-52-R-25	IV	37	2	CA	12
	BIG GAME INVESTIGATIONS DEER/ANTELOPE/JAVELINA/BIGHORN STOCKING	W-109-R-4	II-12	23	1	TX	20
	BIG GAME INVESTIGATIONS DEER/ANTELOPE/ELK/BEAR/JAVELINA/BIGHORN SHEEP HARVEST	W-109-R-4	I-11	661	1	TX	19
	BIG GAME MANAGEMENT & RESEARCH BLACK BEAR AND WHITE-TAILED DEER MORTALITY	W-12-R-34	I	25	2	NH	06

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	BIG GAME MANAGEMENT INVESTIGATIONS BLACK BEAR AND WHITE-TAILED DEER PLANNING	W-89-R-25	XIV	58	1	NY 24
	WILDLIFE RESEARCH DEER BASIC SURVEY	W-160-R-8	IX	27	2	ID 07
	STATEWIDE WILDLIFE SURVEYS & INVENTORIES BASIC SURVEY	W-170-R-5	14	40	2	ID 27
	STATEWIDE WILDLIFE RESEARCH DEER/ELK/MOOSE/ANTELOPE POPULATIONS	W-130-R-12	I	806	2	MT 13
	MIDDLE MISSOURI RIVER DRAINAGE INVESTIGATIONS DEER/ELK/BIGHORN/PHEASANT/GROUSE/GEESE BASIC SURVEY	FW-3-R-9	1-B/C	16	4	MT 17
	FOREST WILDLIFE RESEARCH WT DEER/BL BEAR/ELK/ALL VEGETATION PLANNING	W-117-R-14	11	38	3	MI 05
	BIG GAME RESEARCH BLACK BEAR/WHITE-TAILED DEER/DISEASE DISEASES/PARASITES	W-44-R-10	I	6	2	WV 04
	BIG GAME SURVEY -POPULATION MODEL POPULATIONS	W-27-R-33	2	93	2	WY 03
	BIG GAME SURVEY -WILDLIFE INVENTORY DEER/ELK/ANTELOPE/BIGHORN SHEEP/MT. GOAT POPULATIONS	W-27-R-33	1	487	2	WY 02
	GAME & FISH RESEARCH DEER/ELK/BIGHORN SHEEP BASIC SURVEY	FW-3-R-25	3	54	2	WY 05

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NONGAME MAMMALS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	STATEWIDE GAME MANAGEMENT SURVEY NONGAME BIRDS AND NONGAME MAMMALS LIFE HISTORY	W-53-R-31	5-1	56	2	AZ 06

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GAME MAMMALS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
FOREST LAND	WILDLIFE MANAGEMENT INVESTIGATIONS WHITE-TAILED DEER/HOGS/TURKEY/GROUSE/RACCOON PLANNING	W-46-9	IVD	26	2	TN 09
MULTIPLE HABITATS	STATEWIDE GAME SURVEYS & INVENTORIES AXIS DEER/MOUFLON/FERAL SHEEP AND GOATS LIFE HISTORY	W-17-R-6	II	35	2	HI 01
	GAME INVESTIGATIONS WHITE-TAILED DEER/BLACK BEAR/RACCOON FOOD HABITS	W-67-R-1	II	13	2	VA 04
	STATEWIDE GAME MANAGEMENT SURVEY GAME BIRDS AND MAMMALS PLANNING	W-53-R-31	4-2	18	2	AZ 05

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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
INDOOR LAB	ALASKA WILDLIFE RESEARCH RUMINANTS AND DEPENDENT PREDATORS DISEASES/PARASITES	W-21-2	A18.5	44	2	AK 34
FOREST LAND	STATEWIDE WILDLIFE POPULATION SURVEY COYOTES/COONS/FISHER/OTTER/BOBCAT POPULATIONS	W-76-R-3	I	23	2	NH 15
MIXED CONIF/HARDWOOD	WILDLIFE SURVEYS POPULATIONS	W-47-3	XIV	12	2	GA 36
	COOPERATIVE WILDLIFE PROJECT HARVEST	W-44-6	IV	2	3	AL 12
WETLANDS	WILDLIFE INVESTIGATIONS MUSKRAT/RACCOON/OTTER HARVEST	W-16-R-30	VII	17	2	DE 06
	STATEWIDE WILDLIFE INVESTIGATIONS NUTRIA BASIC SURVEY	W-48-28	IX	16	2	MS 04
MARSH (NON-FORESTED)	STATEWIDE WILDLIFE RESEARCH MINK/MUSKRAT/BEAVER HARVEST	W-120-R-12	FB 1	15	2	MT 07
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS MINK/MUSKRAT/BEAVER HARVEST	W-67-R-21	E-I	6	2	ND 23
MULTIPLE HABITATS	FURBEARER RESEARCH MUSKRAT/BEAVER/FOX/RACCOON/MUSTELIDS/OPOSSUM HARVEST	W-59-R-4	I	8	4	NJ 07
	FURBEARER RESEARCH MUSKRAT/FOX/RACCOON POPULATIONS	W-59-R-4	III	5	4	NJ 09

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
	FURBEARER RESEARCH ECONOMICS	W-59-R-4	VIII	4	4	NJ	14
	WILDLIFE MANAGEMENT SURVEYS MINK/FOX/RACCOON HARVEST	W-95-R-15	XV	2	2	SD	12
	STATEWIDE WILDLIFE INVESTIGATIONS & SURVEYS BEAVER/MINK/MARTEN/OTTER BASIC SURVEY	W-65-RD-29	A-3	21	3	UT	03
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS DISTEMPER/FOX/SKUNK/COYOTE/RACCOON DISEASES/PARASITES	W-67-R-21	A-I	7	2	ND	35
	RHODE ISLAND WILDLIFE INVESTIGATIONS PLANNING	W-23-R-24	VIII	12	1	RI	07
	STATEWIDE WILDLIFE RESEARCH BOBCAT/RIVER OTTER/LYNX/MARTEN/FISHER LIFE HISTORY	W-120-R-12	FB 2	60	2	MT	08
	FUR HARVEST SURVEY RACCOON/MUSKRAT HARVEST	W-15-R-37	D	29	1	NB	04
	STATEWIDE WILDLIFE SURVEY HARVEST	W-9-R-34	I	30	2	NH	01
	STATEWIDE WILDLIFE INVESTIGATIONS BASIC SURVEY	W-29-28	V	44	2	LA	06
	SURVEYS & RESEARCH FURBEARERS AND COYOTES BASIC SURVEY	W-55-R-2	1	53	3	KS	08
	STATEWIDE WILDLIFE MANAGEMENT FOX/RACCOON/MUSTELIDS/BOBCAT HARVEST	W-45-12	FSI	22	2	KY	04
	STATEWIDE WILDLIFE SURVEYS & INVENTORIES BOBCAT/BEAVER/MUSKRAT HARVEST	W-170-R-5	3	32	2	ID	16
	STATEWIDE WILDLIFE SURVEYS FURBEARERS/UPLAND GAME HARVEST	W-49-R-28	15	17	2	IL	23

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	STATEWIDE WILDLIFE RESEARCH MUSKRAT/RACCOON/MINK/FOXES/WEASEL/OPOSS/BEAV/COYOT HARVEST	W-26-R-12	XIV	12	2	IN 06
	WILDLIFE RESEARCH & SURVEYS IN IOWA MINK/MUSKRAT/FOX/COYOTE/COON HARVEST	W-115-R-8	19	12	3	IA 19
	FURBEARER INVESTIGATIONS COYOTE/FERAL DOG/BLACK BEAR/BOBCAT/DOMESTIC ANIMAL FOOD HABITS	W-45-R-1	III	7	2	VT 07
	FURBEARER INVESTIGATIONS COYOTE/FERAL DOG/BLACK BEAR/BOBCAT/DOMESTIC ANIMAL FOOD HABITS	W-45-R-1	III	7	2	VT 07
	FURBEARER INVESTIGATIONS OTTER/BOBCAT HABITATS-GENERAL	W-45-R-1	II	5	2	VT 06
	FURBEARER INVESTIGATIONS OTTER/BOBCAT/FISHER/BEAVER HARVEST	W-45-R-1	I	7	2	VT 05
	SMALL GAME MAMMALS & FURBEARER INVESTIGATIONS FOX/RACCOON/BOBCAT POPULATIONS	W-71-R-1	II	18	2	VA 21
	SMALL GAME MAMMALS & FURBEARER INVESTIGATIONS HARVEST	W-71-R-1	I	4	2	VA 20
	STATEWIDE WILDLIFE INVESTIGATIONS HARVEST	W-37-20	F-1	3	2	GA 38
	STATEWIDE WILDLIFE SURVEYS HARVEST	W-47-3	VII	2	2	GA 32
	STATEWIDE WILDLIFE INVESTIGATIONS HARVEST	W-47-3	XVI	7	2	GA 12
	NONGAME WILDLIFE CANIDS AND MUSTELIDS POPULATIONS	W-54-R-13	I	86	2	CA 13

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FURBEARERS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
NOT APPLICABLE	GAME INVESTIGATIONS GAME AND FURBEARERS USERS	W-67-R-1	IV	16	2	VA 06

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PREDATORS (MAMMALS)

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
WATER (MULTI-AQUATIC)	STATEWIDE WILDLIFE RESEARCH DUCKS AND PREDATORS MORTALITY	W-141-R-16	313	31	2	WI 21
MULTIPLE HABITATS	WILDLIFE RESEARCH & SURVEYS IN IOWA COYOTES/SKUNKS/CROWS/COONS ANIMAL CONTROL	W-115-R-8	12	27	3	IA 12
NOT APPLICABLE	FURBEARER MANAGEMENT RESEARCH TECHNIQUES	W-134-R-1	1-1	8	0	OK 01

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MULTIPLE HABITATS	NONGAME WILDLIFE STUDIES ENDANGERED BIRDS AND MAMMALS LIFE HISTORY	FW-17-R-8	1	26	2	NM 14
	FISH & WILDLIFE INVESTIGATIONS FRUIT BAT/FRUIT & GROUND DOVE/GUAM RAIL/SWIFTLET BASIC SURVEY	FW-2-R	W-5	38	3	GU 04
	ENDANGERED SPECIES RECOVERY PLAN ENDANGERED WILDLIFE PLANNING	W-18-R-6	IV	5	2	MI 05
	STATEWIDE WILDLIFE MANAGEMENT ENDANGERED BIRDS AND MAMMALS BASIC SURVEY	W-45-12	ESRI	2	2	KY 07

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
GAME FARM	FOREST WILDLIFE RESEARCH PLANNING	W-118-R-14	2	8	3	MI 09
HARDWOODS (DECIDUOUS)	FOREST WILDLIFE RESEARCH WHITE-TAILED DEER/HUNTERS AND RESIDENTS USERS	W-117-R-14	9	128	3	MI 04
MULTIPLE HABITATS	FARMLAND WILDLIFE RESEARCH USERS	W-118-R-14	5	20	3	MI 10
	PUBLIC LAND USE SURVEY ECONOMICS	W-58-R-1	1	32	2	KS 05
NOT APPLICABLE	PUBLIC ATTITUDES TOWARD WILDLIFE MANAGEMENT TECHNIQUE	W-146-R-6	VI	6	1	NY 38

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MIXED CONIF/HARDWOOD	FOREST BIRD INVESTIGATIONS ALALA/PALILA BASIC SURVEY	W-18-R-6	II/V	10	2	HI 07
MULTIPLE HABITATS	WILDLIFE RESEARCH & SURVEYS IN IOWA COYOTES/SKUNKS/CROWS/COONS ANIMAL CONTROL	W-115-R-8	12	27	3	IA 12
	HABITAT MANAGEMENT & RESOURCE VALUES LIFE HISTORY	W-127-R-10	II	10	1	NY 32
	VIRGIN ISLANDS FISH & WILDLIFE PROGRAM EXOTIC BIRDS AND MAMMALS RESEARCH TECHNIQUES	FW-3-1	IIA-3	5	3	VI 09

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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
WATER (MULTI-AQUATIC)	SEABIRD INVESTIGATIONS NEWELLI SHEARWATER BASIC SURVEY	W-18-R-6	VI	8	2	HI 04

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
COASTAL WATERS	PUERTO RICO WILDLIFE STUDIES BROWN PELICAN POPULATIONS	W-8-24	XII	46	2	PR 01
MULTIPLE HABITATS	VIRGIN ISLANDS FISH & WILDLIFE PROGRAM PELICANIFORMES/CHARADRILIFORMES BASIC SURVEY	FW-3-1	IIA-1	17	3	VI 07

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
LABORATORY	RESEARCH STUDIES ON TERRESTRIAL WILDLIFE SYSTEMATICS	W-38-R-13	XII	19	2	NB 11
WATER (MULTI-AQUATIC)	MASSACHUSETTS WATERFOWL RESEARCH PROGRAM HARVEST	W-42-R-14	II	25	1	MA 03
	MASSACHUSETTS WATERFOWL RESEARCH PROGRAM HARVEST	W-42-R-14	XII	2	1	MA 10
	MASSACHUSETTS WATERFOWL RESEARCH PROGRAM HEAVY METALS	W-42-R-14	XI	2	1	MA 09
	MASSACHUSETTS WATERFOWL RESEARCH PROGRAM POPULATIONS	W-42-R-14	VIII	9	1	MA 06
	WATERBIRD INVESTIGATIONS STILT/COOT/GALINULE/KOLOA BASIC SURVEY	W-18-R-6	III	18	2	HI 06
	SURVEYS & RESEARCH HARVEST	W-23-R-19	XVII	49	2	KS 07
	WILDLIFE MANAGEMENT STUDIES BASIC SURVEY	W-57-6	E1	45	3	NC 12
	WATERFOWL MANAGEMENT & RESEARCH POPULATIONS	W-39-R-34	I	7	1	NY 01
	GAME BIRD STUDIES MORTALITY	W-104-R-21	10-8	7	0	NM 05
	WATERFOWL MANAGEMENT & RESEARCH PLANNING	W-39-R-34	IX	16	1	NY 04
	GAME BIRD STUDIES POPULATIONS	W-104-R-21	10-[illegible]	11	0	NM 02

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	WETLANDS ECOLOGY HARVEST	W-58-R-4	VI	14	2	NJ 06
	WETLANDS ECOLOGY HEAVY METALS	W-58-R-4	IV	9	2	NJ 04
	STATEWIDE WILDLIFE SURVEY BASIC SURVEY	W-9-R-34	III	11	2	NH 03
	WATERFOWL INVESTIGATIONS DUCKS AND GEESE BASIC SURVEY	W-27-R-33	1	118	3	WA 01
	MIGRATORY GAME INVESTIGATIONS WOOD DUCK BASIC SURVEY	W-70-R-1	III	24	2	VA 19
	WATERFOWL INVESTIGATIONS POPULATIONS	W-33-R-19	I	53	2	VT 01
	WATERFOWL INVESTIGATIONS MANAGEMENT TECHNIQUE	W-33-R-19	IV	6	2	VT 03
	STATEWIDE WATERFOWL PROGRAM BASIC SURVEY	W-117-LD12	A/B	82	3	UT 21
BAYS/ESTUARIES	WILDLIFE MANAGEMENT STUDIES WATERFOWL BASIC SURVEY	W-57-6	E2	5	3	NC 13
OTHER WATER AREAS	WILDLIFE INVESTIGATIONS POPULATIONS	W-16-R-30	II	5	2	DE 02
PONDS- <40 ACRES	STATEWIDE WILDLIFE RESEARCH PUDDLE DUCKS HARVEST	W-141-R-16	116	2	2	WI 04

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
WETLANDS	STATEWIDE WILDLIFE RESEARCH PUDDLE DUCKS HARVEST	W-141-R-16	116	2	2	WI 04
	EASTERN CANADA COOPERATIVE BANDING PROJECT GEESE AND PUDDLE DUCKS POPULATIONS	W-49-R-16	1	4	2	NH 12
	WETLANDS ECOLOGY BASIC SURVEY	W-58-R-4	I	16	2	NJ 02
	WATERFOWL MANAGEMENT & RESEARCH HEAVY METALS	W-39-R-34	X	20	1	NY 05
	WATERFOWL MANAGEMENT & RESEARCH HARVEST	W-39-R-34	VIII	24	1	NY 03
	WATERFOWL MANAGEMENT & RESEARCH POPULATIONS	W-39-R-34	II	3	1	NY 02
	ATLANTIC FLYWAY COOPERATIVE BANDING PROGRAM GEESE/PUDDLE DUCKS POPULATIONS	W-29-R-17	1	3	1	RI 08
	WATERFOWL STUDIES MORTALITY	W-106-R-7	III-6	8	0	TX 12
	WATERFOWL STUDIES HABITATS-GENERAL	W-106-R-7	II-2	17	0	TX 11
	WATERFOWL STUDIES HARVEST	W-106-R-7	I-1	76	0	TX 10
	WILDLIFE MANAGEMENT INVESTIGATIONS MIGRATION	W-46-9	VIB	35	2	TN 13
	WILDLIFE MANAGEMENT INVESTIGATIONS HARVEST	W-46-9	VIA	14	2	TN 12
	STATEWIDE WILDLIFE RESEARCH PLANNING	W-26-R-12	XIX	3	2	IN 09

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
	COOPERATIVE WATERFOWL BANDING PROJECT GEESE AND PUDDLE DUCKS POPULATIONS	W-40-R-17	1	3	4	MA	02
	MIGRATORY BIRD INVESTIGATIONS HARVEST	W-88-R-26	3-9	44	1	CO	15
	MIGRATORY BIRD INVESTIGATIONS POPULATIONS	W-88-R-26	1-1	10	1	CO	10
	WATERFOWL STUDIES DUCKS AND GEESE BASIC SURVEY	W-30-R-33	1-3	142	2	CA	01
	STATEWIDE RESEARCH PROJECT WATERFOWL/MOURNING DOVE HARVEST	W-56-21	V	3	3	AR	05
	STATEWIDE WILDLIFE INVESTIGATIONS BASIC SURVEY	W-35-28	I	37	3	AL	01
MARSH (NON-FORESTED)	STATEWIDE WILDLIFE INVESTIGATIONS BASIC SURVEY	W-37-20	XLV	4	2	GA	06
	SURVEYS & INVENTORIES - WATERFOWL BASIC SURVEY	W-15-R-37	C	117	1	NB	03
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HARVEST	W-67-R-21	D-I	25	2	ND	19
SALT MARSH	WILDLIFE MANAGEMENT STUDIES WATERFOWL BASIC SURVEY	W-57-6	E2	5	3	NC	13
MULTIPLE HABITATS	STATEWIDE WILDLIFE RESEARCH DUCKS AND GEESE HARVEST	W-95-R-15	VI	17	2	SD	06

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	WETLAND WILDLIFE RESEARCH DUCKS/GEESE PLANNING	W-104-R-23	V	10	2	OH 05
	WETLAND WILDLIFE RESEARCH DUCKS/GEESE HARVEST	W-104-R-23	IV	27	2	OH 04
	STATEWIDE WILDLIFE RESEARCH ALL DUCKS AND GEESE BASIC SURVEY	W-130-R-12	II-8	67	2	MT 15
	STATEWIDE WILDLIFE INVESTIGATIONS HARVEST	W-48-28	I	22	2	MS 01
	STATEWIDE WILDLIFE MANAGEMENT HARVEST	W-45-12	WSI	53	2	KY 03
	STATEWIDE WILDLIFE INVESTIGATIONS BASIC SURVEY	W-29-28	II	100	2	LA 03
	STATEWIDE WILDLIFE RESEARCH GEESE/MERGANSER/COOT/GALLINULES/DUCKS/DOVE/WCOCKS HARVEST	W-26-R-12	XVII	27	2	IN 20
	SURVEYS & RESEARCH DUCKS AND GEESE RESEARCH TECHNIQUES	W-23-R-19	Z	16	2	KS 06
	WILDLIFE RESEARCH & SURVEYS IN IOWA DUCKS AND GEESE BASIC SURVEY	W-115-R-8	18	23	3	IA 18
	STATEWIDE WILDLIFE SURVEYS & INVENTORIES DUCKS AND GEESE POPULATIONS	W-170-R-5	2	91	2	ID 15
	STATEWIDE RESEARCH PROJECT BASIC SURVEY	W-56-21	II	5	3	AR 02
NOT APPLICABLE	WILDLIFE RESEARCH & SURVEYS IN IOWA MANAGEMENT TECHNIQUE	W-115-R-8	10	3	3	IA 10

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	FOREST GAME INVESTIGATIONS HARVEST	W-88-R-1	101	59	2	IL 42
	MASSACHUSETTS WATERFOWL RESEARCH PROGRAM LIFE HISTORY	W-42-R-14	VI	3	1	MA 05
	MASSACHUSETTS WATERFOWL RESEARCH PROGRAM PLANNING	W-42-R-14	IX	2	1	MA 07
	MASSACHUSETTS WATERFOWL RESEARCH PROGRAM PLANNING	W-42-R-14	XIII	2	1	MA 11
	WETLANDS ECOLOGY ECONOMICS	W-58-R-4	V	7	2	NJ 05

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MIXED RANGE	NENE INVESTIGATIONS NENE GOOSE BASIC SURVEY	W-18-R-6	I	26	2	HI 08
WATER (MULTI-AQUATIC)	MASSACHUSETTS WATERFOWL RESEARCH PROGRAM ECONOMICS	W-42-R-14	X	1	1	MA 08
	GAME BIRD STUDIES POPULATIONS	W-104-R-21	10-6	7	0	NM 04
MULTIPLE HABITATS	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS CULTURE/REARING	W-67-R-21	D-VI	30	2	ND 22
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS SNOW GEESE HARVEST	W-67-R-21	DVIII	3	2	ND 31
	WATERFOWL INVESTIGATIONS LIFE HISTORY	W-33-R-19	III	12	2	VT 02

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
LABORATORY	STATEWIDE WILDLIFE RESEARCH STOCKING	W-26-R-12	VII-1	9	2	IN	02
CROP/PASTURE LAND	STATEWIDE WILDLIFE RESEARCH STOCKING	W-141-R-16	314	47	2	WI	22
WATER (MULTI-AQUATIC)	STATEWIDE WILDLIFE RESEARCH STOCKING	W-141-R-16	314	47	2	WI	22
	RHODE ISLAND WILDLIFE INVESTIGATIONS DUCKS/CANADA GEESE POPULATIONS	W-23-R-24	II	25	1	RI	02
RESERVOIRS- >40 ACRES	WILDLIFE MANAGEMENT INVESTIGATIONS STOCKING	W-46-9	VIC	25	2	TN	14
	CANADA GOOSE RESTORATION STOCKING	W-48-2	I	9	2	GA	27
WETLANDS	MIGRATORY BIRD INVESTIGATIONS HARVEST	W-88-R-26	2-6	17	1	CO	11
	MIGRATORY BIRD INVESTIGATIONS HARVEST	W-88-R-26	2-9	4	1	CO	12
	STATEWIDE WILDLIFE RESEARCH MORTALITY	W-26-R-12	XXIV	1	2	IN	12
MARSH (NON-FORESTED)	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HARVEST	W-67-R-21	D-III	12	2	ND	2[illegible]

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
MULTIPLE HABITATS							
	HARVEST	W-104-R-23	II	27	2	OH	02
	WETLAND WILDLIFE RESEARCH HARVEST	W-104-R-23	I	28	2	OH	01
	WATERFOWL INVESTIGATIONS HARVEST	W-33-R-19	VI	15	2	VT	04

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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
WATER (MULTI-AQUATIC)	STATEWIDE WILDLIFE RESEARCH DUCKS AND PREDATORS MORTALITY	W-141-R-16	313	31	2	WI 21
	STATEWIDE WILDLIFE RESEARCH MALLARDS HARVEST	W-141-R-16	312	52	2	WI 20
	RHODE ISLAND WILDLIFE INVESTIGATIONS DUCKS/CANADA GEESE POPULATIONS	W-23-R-24	II	25	1	RI 02
	GAME BIRD STUDIES POPULATIONS	W-104-R-21	10-5	8	0	NM 03
PONDS- <40 ACRES	VIRGIN ISLANDS FISH & WILDLIFE PROGRAM BAHAMA PINTAIL/TEAL/RUDDY DUCK BASIC SURVEY	FW-3-1	ID-1	12	3	VI 06
WETLANDS	MIGRATORY BIRD INVESTIGATIONS HARVEST	W-88-R-26	3-7	9	1	CO 13
	STATEWIDE RESEARCH PROJECT BASIC SURVEY	W-56-21	III	6	3	AR 03
	STATEWIDE WILDLIFE SURVEYS HARVEST	W-47-3	XIII	8	2	GA 25
	STATEWIDE WILDLIFE SURVEYS HARVEST	W-47-3	I	44	2	GA 18
	MIGRATORY BIRD INVESTIGATIONS HARVEST	W-88-R-26	3-8	26	1	CO 14
MULTIPLE HABITATS	WILDLIFE RESEARCH & SURVEYS IN IOWA REPRODUCTION	W-115-R-8	9	7	3	IA 09

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TREE DUCKS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
WETLANDS	WETLAND WILDLIFE RESEARCH WOOD DUCKS HARVEST	W-104-R-23	III	51	2	OH	03

MAR 1981
PUDDLE DUCKS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
AGRICULTURAL LAND	STATEWIDE WILDLIFE RESEARCH ANIMAL CONTROL	W-141-R-16	121	16	2	WI	09
WATER (MULTI-AQUATIC)	MASSACHUSETTS WATERFOWL RESEARCH PROGRAM REPRODUCTION	W-42-R-14	XV	5	1	MA	13
WETLANDS	STATEWIDE WILDLIFE RESEARCH HARVEST	W-41-28	XVIII	11	2	FL	07
NOT APPLICABLE	MASSACHUSETTS WATERFOWL RESEARCH PROGRAM LIFE HISTORY	W-42-R-14	IV	5	1	MA	04

MAR 1981
DIVING DUCKS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
WETLANDS	STATEWIDE WILDLIFE RESEARCH HEAVY METALS	W-41-28	XX	18	2	FL 08

MAR 1981
HAWK/EAGLE/FALCON

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
FOREST LAND	NONGAME WILDLIFE OWLS/PRAIRIE FALCON/HARRIS AND SWAINSON'S HAWKS BASIC SURVEY	W-54-R-13	II	42	2	CA 14
WETLANDS	WILDLIFE INVESTIGATIONS	W-16-R-30	VIII	4	2	DE 07
MULTIPLE HABITATS	FARMLAND WILDLIFE RESEARCH RED-TAILED HAWK POPULATIONS	W-118-R-14	10	14	3	MI 12
	WILDLIFE MANAGEMENT SURVEYS REPRODUCTION	W-95-R-15	IX	10	2	SD 09

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
HARDWOODS (DECIDUOUS)	STATEWIDE WILDLIFE RESEARCH GRAY SQUIRREL/RUFFED GROUSE/WILD TURKEY HARVEST	W-26-R-12	XVI	15	2	IN	08
MULTIPLE HABITATS	STATEWIDE WILDLIFE RESEARCH RABBIT/SQUIRREL/QUAIL/PHEASANT HARVEST	W-26-R-12	XXIII	13	2	IN	11
	UPLAND GAME BIRD INVESTIGATIONS PHEASANT/SAGE GROUSE HARVEST	W-70-R	I	42	3	WA	04
	UPLAND GAME INVESTIGATIONS CHUKAR/TURKEY/PHEASANT/MT. QUAIL STOCKING	W-47-R-29	III	9	2	CA	04
	UPLAND GAME INVESTIGATIONS SQUIRREL/RABBIT/TURKEY/QUAIL/PHEASANT/R & S GROUSE POPULATIONS	W-47-R-29	II	17	2	CA	03

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
AGRICULTURAL LAND	COOPERATIVE WILDLIFE RESEARCH HABITATS-GENERAL	W-66-R-21	III-C	32	2	IL 32
	COOPERATIVE WILDLIFE RESEARCH REPRODUCTION	W-66-R-21	III-B	18	2	IL 31
	COOPERATIVE WILDLIFE RESEARCH BASIC SURVEY	W-66-R-21	III-A	10	2	IL 30
RANGE LAND	UPLAND GAME BIRD INVESTIGATIONS SAGE GROUSE BASIC SURVEY	W-70-R	VI	39	3	WA 02
MIXED RANGE	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS SHARP-TAILED AND SAGE GROUSE HARVEST	W-67-R-21	B-V	24	2	ND 02
	GAME BIRD SURVEYS BASIC SURVEY	W-37-R-34	13-7	38	1	CO 06
	GAME BIRD SURVEYS MINING POLLUTION	W-37-R-34	3-12	4	1	CO 03
FOREST LAND	WILDLIFE INVESTIGATIONS STOCKING	W-16-R-30	III	2	2	DE 03
	STATEWIDE WILDLIFE RESEARCH POPULATIONS	W-141-R-16	213	12	2	WI 13
HARDWOODS (DECIDUOUS)	FOREST GAME RESEARCH BASIC SURVEY	W-39-R-23	II	4	2	WV 02
	STATEWIDE WILDLIFE INVESTIGATIONS HABITATS-GENERAL	W-37-20	LV	3	2	GA 11

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MIXED CONIF/HARDWOOD	GAME BIRD SURVEYS POPULATIONS	W-37-R-34	9-5	30	1	CO 04
	GAME BIRD SURVEYS SYSTEMATICS	W-37-R-34	9-6	12	1	CO 05
	STATEWIDE WILDLIFE RESEARCH LIFE HISTORY	W-141-R-16	202	14	2	WI 10
	STATEWIDE WILDLIFE RESEARCH HARVEST	W-141-R-16	221	18	2	WI 18
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS RUFFED GROUSE STOCKING	W-67-R-21	B-VII	8	2	ND 04
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS RUFFED GROUSE SYSTEMATICS	W-67-R-21	B-XI	8	2	ND 07
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS RUFFED GROUSE PLANT CONTROL	W-67-R-21	B-XIV	20	2	ND 10
	FOREST WILDLIFE RESEARCH RUFFED GROUSE HARVEST	W-105-R-22	10	62	2	OH 08
	FOREST WILDLIFE RESEARCH RUFFED GROUSE HARVEST	W-105-R-22	13	12	2	OH 11
WETLANDS	STATEWIDE WILDLIFE RESEARCH PRAIRIE CHICKEN PESTICIDES POLLUTION	W-141-R-16	407	6	2	WI 23
MULTIPLE HABITATS	UPLAND GAME BIRD INVESTIGATIONS RUFFED GROUSE POPULATIONS	W-68-R-1	II	4	2	VA 12
	STATEWIDE WILDLIFE RESEARCH SHARPTAILS AND PRAIRIE CHICKENS/SAGE GROUSE HARVEST	W-95-R-15	II	20	2	SD 02

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GROUSE

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
	WILDLIFE RESEARCH & SURVEYS IN IOWA HARVEST	W-115-R-8	16	4	3	IA	16
	SURVEY & INVENTORY OF PRAIRIE GROUSE HARVEST	W-15-R-37	E	17	1	NB	13
	GAME BIRD SURVEYS HARVEST	W-37-R-34	3-11	70	1	CO	02

MAR 1981
PARTRIDGE

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
CROP/PASTURE LAND	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HUNGARIAN PARTRIDGE HABITATS-GENERAL	W-67-R-21	BXVII	20	2	ND	29
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HUNGARIAN PARTRIDGE HARVEST	W-67-R-21	B-IX	14	2	ND	05
MULTIPLE HABITATS	STATEWIDE WILDLIFE RESEARCH HARVEST	W-95-R-15	III	5	2	SD	03
NOT APPLICABLE	STATEWIDE WILDLIFE RESEARCH HUNGARIAN PARTRIDGE LIFE HISTORY	W-120-R-12	GB 1	2	2	MT	09
	STATEWIDE WILDLIFE RESEARCH PLANNING	W-141-R-16	122	6	2	WI	07

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
AGRICULTURAL LAND	UPLAND WILDLIFE INVESTIGATIONS REPRODUCTION	W-47-R-10	III	3	2	MD 02
	WILDLIFE RESEARCH & SURVEYS IN IOWA HABITATS-GENERAL	W-115-R-8	4	11	3	IA 04
	WILDLIFE RESEARCH & SURVEYS IN IOWA MANAGEMENT TECHNIQUE	W-115-R-8	3	5	3	IA 03
	WILDLIFE RESEARCH & SURVEYS IN IOWA POPULATIONS	W-115-R-8	2	4	3	IA 02
	WILDLIFE RESEARCH & SURVEYS IN IOWA STOCKING	W-115-R-8	1	4	3	IA 01
	STATEWIDE WILDLIFE RESEARCH POPULATIONS	W-26-R-12	XV	7	2	IN 07
	STATEWIDE WILDLIFE RESEARCH RINGNECK, KOREAN, WESTERN IRANIANXRINGNCK PHEASANT STOCKING	W-26-R-12	V-E	3	2	IN 01
	STATEWIDE WILDLIFE SURVEYS HARVEST	W-49-R-28	3	15	2	IL 11
	UPLAND GAME BIRD STUDIES BASIC SURVEY	W-81-R-28	III	140	1	NY 07
	WILDLIFE INVESTIGATIONS STOCKING	W-16-R-30	IV	7	2	DE 04
CROP/PASTURE LAND	GAME BIRD SURVEYS REPRODUCTION	W-37-R-34	1-22	41	1	CO 01
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HARVEST	W-67-R-21	B-I	29	2	ND 01

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HABITATS-GENERAL	W-67-R-21	B-XVI	18	2	MO 11
	COOPERATIVE WILDLIFE RESEARCH PHEASANT/GRASSES REPRODUCTION	W-66-R-21	I-C	4	2	IL 26
	COOPERATIVE WILDLIFE RESEARCH REPRODUCTION	W-66-R-21	I-E	11	2	IL 28
	COOPERATIVE WILDLIFE RESEARCH REPRODUCTION	W-66-R-21	I-D	4	2	IL 27
	COOPERATIVE WILDLIFE RESEARCH REPRODUCTION	W-66-R-21	I-B	32	2	IL 25
	COOPERATIVE WILDLIFE RESEARCH REPRODUCTION	W-66-R-21	I-A	11	2	IL 24
	SURVEY & INVENTORY - PHEASANTS HARVEST	W-15-R-37	G	43	1	NB 06
MULTIPLE HABITATS	STATEWIDE WILDLIFE RESEARCH HARVEST	W-95-R-15	I	24	2	SD 01
	STATEWIDE WILDLIFE RESEARCH BASIC SURVEY	W-141-R-16	123	18	2	WI 08
	STATEWIDE WILDLIFE INVESTIGATIONS & SURVEYS MANAGEMENT TECHNIQUE	W-65-RD-29	B-8	38	3	UT 06

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
LABORATORY	GAME INVESTIGATIONS OPOSSUM/COTTONTAIL/RATS/MICE/RACCOON/QUAIL/DISEASE DISEASES/PARASITES	W-67-R-1	V	8	2	VA	07
AGRICULTURAL LAND	STATEWIDE WILDLIFE RESEARCH MANAGEMENT TECHNIQUE	W-141-R-16	112	21	2	WI	02
	UPLAND WILDLIFE INVESTIGATIONS BASIC SURVEY	W-47-R-10	V	6	2	MD	04
	STATEWIDE WILDLIFE SURVEYS AGE/GROWTH	W-49-R-28	4	12	2	IL	12
CROP/PASTURE LAND	STATEWIDE WILDLIFE RESEARCH LIFE HISTORY	W-26-R-12	X-F	5	2	IN	03
	STATEWIDE WILDLIFE RESEARCH HARVEST	W-26-R-12	XX	7	2	IN	10
	SURVEY & INVENTORY - QUAIL HARVEST	W-15-R-37	H	12	1	NB	07
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE RESEARCH PROJECT FOOD PRODUCTION	W-38-17	IV	22	2	SC	03
	STATEWIDE WILDLIFE RESEARCH PROJECT BOBWHITE AND COTTONTAIL HARVEST	W-38-17	II	1	2	SC	02
MULTIPLE HABITATS	STATEWIDE WILDLIFE RESEARCH HARVEST	W-95-R-15	IV	3	2	SD	04
	GAME BIRD STUDIES POPULATIONS	W-104-R-21	1-8	3	0	NM	01

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
	STATEWIDE WILDLIFE RESEARCH CULTURE/REARING	W-26-R-12	"33"	13	2	IN	21
	UPLAND GAME BIRD INVESTIGATIONS BASIC SURVEY	W-68-R-1	III	8	2	VA	13
	STATEWIDE INVESTIGATIONS FOOD HABITS	W-53-R-31	3-3	7	2	AZ	28
	STATEWIDE WILDLIFE SURVEYS HARVEST	W-47-3	XII	8	2	GA	24

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
FOREST LAND	HABITAT MANAGEMENT INVESTIGATIONS TURKEY/CLEARCUTTING FORESTRY-DEGRADATION	W-69-R-1	II	3	2	VA	15
	WILD TURKEY INVESTIGATIONS STOCKING	W-52-R-4	II	14	2	MD	08
	WILD TURKEY INVESTIGATIONS HARVEST	W-52-R-4	I	26	2	MD	07
	WILD TURKEY STUDIES STOCKING	W-75-R-3	I	26	2	NH	14
	UPLAND GAME BIRD STUDIES HARVEST	W-81-R-28	I	18	1	NY	06
	UPLAND GAME INVESTIGATIONS BASIC SURVEY	W-108-R-4	25-29	18	0	TX	18
HARDWOODS (DECIDUOUS)	STATEWIDE WILDLIFE RESEARCH HARVEST	W-95-R-15	V	3	2	SD	05
	FOREST GAME RESEARCH BASIC SURVEY	W-39-R-23	I	20	2	WV	01
MIXED CONIF/HARDWOOD	WILD TURKEY INVESTIGATIONS POPULATIONS	W-42-11	III	3	2	SC	05
	WILD TURKEY INVESTIGATIONS STOCKING	W-42-11	V	20	2	SC	04
	STATEWIDE WILDLIFE RESEARCH PROJECT WHITE-TAILED DEER/WILD TURKEY HARVEST	W-38-17	I	47	2	SC	01
	FOREST WILDLIFE RESEARCH STOCKING	W-105-R-22	5	26	2	OH	07

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	WILDLIFE MANAGEMENT INVESTIGATIONS POPULATIONS	W-46-9	IVE2	5	2	TN 10
	WILDLIFE MANAGEMENT INVESTIGATIONS STOCKING	W-46-9	IVC	52	2	TN 08
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS STOCKING	W-67-R-21	B-VI	6	2	ND 03
	WILDLIFE MANAGEMENT IN NORTH CAROLINA STOCKING	W-57-6	A4	39	3	NC 03
	WILDLIFE MANAGEMENT IN NORTH CAROLINA STOCKING	W-57-6	A3	40	3	NC 02
	STATEWIDE WILDLIFE INVESTIGATIONS STOCKING	W-29-28	IV	39	2	LA 05
	STATEWIDE WILDLIFE MANAGEMENT HARVEST	W-45-12	TSI	8	2	KY 05
	WILDLIFE MANAGEMENT PLANNING & RESEARCH HARVEST	W-13-R-34	51	18	1	MO 20
	WATERFOWL SURVEY & INVESTIGATION STOCKING	W-63-R-23	3	16	2	IL 06
	FOREST GAME INVESTIGATIONS HARVEST	W-63-R-23	2	16	2	IL 05
	FOREST GAME INVESTIGATIONS WHITE-TAILED DEER/WILD TURKEY HARVEST	W-63-R-23	1	62	2	IL 04
	STATEWIDE WILDLIFE INVESTIGATIONS REPRODUCTION	W-37-20	XLIX	4	2	GA 04
	STATEWIDE WILDLIFE SURVEYS HARVEST	W-47-3	XI	8	2	GA 23

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	WILD TURKEY RESTORATION STOCKING	W-43-9	43-9	67	2	GA 15
	COOPERATIVE WILDLIFE PROJECT POPULATIONS	W-44-6	VIII	38	3	AL 14
MULTIPLE HABITATS	WILDLIFE RESEARCH & SURVEYS IN IOWA STOCKING	W-115-R-8	8	3	3	IA 08
	WILDLIFE RESEARCH & SURVEYS IN IOWA POPULATIONS	W-115-R-8	6	30	3	IA 06
	WILDLIFE RESEARCH & SURVEYS IN IOWA HARVEST	W-115-R-8	17	4	3	IA 17
	SURVEYS & RESEARCH HARVEST	W-23-R-19	V	10	2	KS 02
	SURVEY & INVENTORY - TURKEY HARVEST	W-15-R-37	M	17	1	NB 08
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HARVEST	W-67-R-21	B-X	3	2	ND 06
	GAME BIRD STUDIES BASIC SURVEY	W-104-R-21	18-1	21	0	NM 13
	UPLAND GAME BIRD INVESTIGATIONS POPULATIONS	W-68-R-1	I	28	2	VA 11
NOT APPLICABLE	WILD TURKEY INVESTIGATIONS HARVEST	W-52-R-4	III	11	2	MD 09

MAR 1981
CRANES

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
CROP/PASTURE LAND	FARMLAND WILDLIFE RESEARCH SANDHILL CRANE FOOD HABITS	W-118-R-14	9	16	3	MI 11

MAR 1981
RAILS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
RIVERS	STATEWIDE WILDLIFE INVESTIGATIONS CLAPPER RAIL HEAVY METALS	W-37-20	XVI	6	2	GA 13
SALT MARSH	STATEWIDE WILDLIFE INVESTIGATIONS CLAPPER RAIL HEAVY METALS	W-37-20	XVI	6	2	GA 13

MAR 1981
COOTS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
WATER (MULTI-AQUATIC)	AMERICAN COOT INVESTIGATIONS LIFE HISTORY	W-88-R-26	7-1	1	1	CO 19

MAR 1981
CHARADRIIFORMS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MULTIPLE HABITATS	VIRGIN ISLANDS FISH & WILDLIFE PROGRAM PELICANIFORMES/CHARADRILIFORMES BASIC SURVEY	FW-3-1	IIA-1	17	3	VI 07

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
CROP/PASTURE LAND	RHODE ISLAND WILDLIFE INVESTIGATIONS WOODCOCK/MOURNING DOVE BASIC SURVEY	W-23-R-24	I	17	1	RI 01
HARDWOODS (DECIDUOUS)	WILDLIFE MANAGEMENT STUDIES HARVEST	W-57-6	A6	2	3	NC 04
MIXED CONIF/HARDWOOD	COOPERATIVE WILDLIFE PROJECT HABITATS-GENERAL	W-44-6	II-B	19	3	AL 11
	COOPERATIVE WILDLIFE PROJECT HABITATS-GENERAL	W-44-6	II-A	19	3	AL 10
SWAMP (FORESTED)	STATEWIDE WILDLIFE SURVEYS POPULATIONS	W-49-R-28	6	2	2	IL 14
MULTIPLE HABITATS	MIGRATORY GAME INVESTIGATIONS FORESTRY-DEGRADATION	W-70-R-1	II	18	2	VA 18

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
FOREST LAND	VIRGIN ISLANDS FISH & WILDLIFE PROGRAM WHITE-CROWNED AND SCALEY-NAPED PIGEON/ZENAIDA DOVE BEHAVIOR	FW-3-1	IC-1	4	3	VI 05
	VIRGIN ISLANDS FISH & WILDLIFE PROGRAM ZENAIDA DOVE/STONE CRABS MORTALITY	FW-3-1	IA-2	4	3	VI 04

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	* STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
AGRICULTURAL LAND	STATEWIDE WILDLIFE SURVEYS HEAVY METALS	W-49-R-28	5	5	2	IL	13
	STATEWIDE WILDLIFE INVESTIGATIONS HARVEST	W-48-28	IV	2	2	MS	03
	STATEWIDE WILDLIFE INVESTIGATIONS MOURNING DOVE HARVEST	W-48-28	X	23	2	MS	05
	STATEWIDE RESEARCH PROJECT WATERFOWL/MOURNING DOVE HARVEST	W-56-21	V	3	3	AR	05
CROP/PASTURE LAND	STATEWIDE WILDLIFE INVESTIGATIONS MOURNING DOVE HARVEST	W-37-20	LI	15	2	GA	09
	RHODE ISLAND WILDLIFE INVESTIGATIONS WOODCOCK/MOURNING DOVE BASIC SURVEY	W-23-R-24	I	17	1	RI	01
FOREST LAND	STATEWIDE WILDLIFE INVESTIGATIONS MOURNING DOVE HARVEST	W-48-28	X	23	2	MS	05
MIXED CONIF/HARDWOOD	STATEWIDE WILDLIFE INVESTIGATIONS MOURNING DOVE HARVEST	W-37-20	LI	15	2	GA	09
WETLANDS	GAME BIRD STUDIES HABITATS-GENERAL	W-104-R-21	12-8	22	0	NM	10
MULTIPLE HABITATS	GAME BIRD STUDIES LIFE HISTORY	W-104-R-21	12-7	3	0	NM	09

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	GAME BIRD STUDIES POPULATIONS	W-104-R-21	12-6	3	0	NM 08
	WILDLIFE MANAGEMENT IN NORTH CAROLINA HARVEST	W-57-6	A2	2	3	NC 01
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS HARVEST	W-67-R-21	D-V	5	2	ND 21
	WILDLIFE MANAGEMENT INVESTIGATIONS HARVEST	W-46-9	IIB	14	2	TN 04
	MOURNING DOVE RESEARCH HARVEST	W-95-R-15	11	8	0	TX 09
	MOURNING DOVE RESEARCH HARVEST	W-95-R-15	10	22	0	TX 08
	MOURNING DOVE RESEARCH MORTALITY	W-95-R-15	9	2	0	TX 07
	MOURNING DOVE RESEARCH POPULATIONS	W-95-R-15	1	20	0	TX 06
	SURVEY & INVENTORY - MOURNING DOVE HARVEST	W-15-R-37	R	17	1	NB 09
	STATEWIDE WILDLIFE MANAGEMENT HARVEST	W-45-12	SGRI	8	2	KY 02
	STATEWIDE WILDLIFE INVESTIGATIONS HARVEST	W-29-28	III	5	2	LA 04
	MIGRATORY GAME INVESTIGATIONS BASIC SURVEY	W-70-R-1	I	14	2	VA 17
	STATEWIDE WILDLIFE SURVEYS POPULATIONS	W-47-3	X	3	2	GA 29

MAR 1981
MOURNING DOVE

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	EFFECTS OF LAND USE CHANGES HABITATS-GENERAL	W-88-R-26	4-7	9	1	CO 16
	STATEWIDE WILDLIFE INVESTIGATIONS BASIC SURVEY	W-35-28	XIII	3	3	AL 08
	COOPERATIVE WILDLIFE PROJECT REPRODUCTION	W-44-6	VII	2	3	AL 13

MAR 1981
BAND-TAIL PIGEON

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
FOREST LAND	GAME BIRD STUDIES POPULATIONS	W-104-R-21	12-5	5	0	NM 07
MULTIPLE HABITATS	EVALUATE CENSUS METHODS RESEARCH TECHNIQUES	W-88-R-26	4-8	2	1	CO 17

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MAR 1981
WHITE WING DOVE

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	MOURNING DOVE RESEARCH POPULATIONS	W-30-R-34	IX-9	5	1	TX 05
	MOURNING DOVE RESEARCH HABITATS-GENERAL	W-30-R-34	VII-7	5	1	TX 04
	WHITEWING DOVE STUDIES HARVEST	W-30-R-34	V	9	1	TX 03
	WHITEWING DOVE STUDIES POPULATIONS	W-30-R-34	II-2	7	1	TX 02
	SURVEY & STATUS OF WHITEWING DOVE HARVEST	W-30-R-34	I-1	47	1	TX 01

MAR 1981
OWLS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
FOREST LAND	NONGAME WILDLIFE OWLS/PRAIRIE FALCON/HARRIS AND SWAINSON'S HAWKS BASIC SURVEY	W-54-R-13	II	42	2	CA 14

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
CROP/PASTURE LAND	COOPERATIVE WILDLIFE RESEARCH SONGBIRDS REPRODUCTION	W-66-R-21	I-F	5	2	IL 29
MIXED CONIF/HARDWOOD	FOREST WILDLIFE RESEARCH NONGAME BIRDS/HABITATS PLANT CONTROL	W-105-R-22	12	2	2	OH 10
MULTIPLE HABITATS	FISH & WILDLIFE INVESTIGATIONS SHORE, SEA AND LAND BIRDS POPULATIONS	FW-2-R	W-4	19	3	GU 03
	STATEWIDE WILDLIFE RESEARCH OSPREY/GLD EAGLES/MT PLOVERS/FERR HAWKS/OWLS/BBIRD LIFE HISTORY	W-120-R-12	NG 2	16	2	MT 11
	NONGAME WILDLIFE WATERBIRDS/CRANES POPULATIONS	W-54-R-13	III	20	2	CA 15
	STATEWIDE GAME MANAGEMENT SURVEY NONGAME BIRDS AND NONGAME MAMMALS LIFE HISTORY	W-53-R-31	5-1	56	2	AZ 05

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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
AGRICULTURAL LAND	FISH & WILDLIFE INVESTIGATIONS PHILIPPINE TURTLE DOVE/BLACK FRANCOLIN BASIC SURVEY	FW-2-R	W-2	22	3	GU	02
FOREST LAND	WILDLIFE MANAGEMENT INVESTIGATIONS WHITE-TAILED DEER/HOGS/TURKEY/GROUSE/RACCOON PLANNING	W-46-9	IVD	26	2	TN	09
WATER (MULTI-AQUATIC)	WETLANDS ECOLOGY SNOW GOOSE/WOODCOCK/CLAPPER RAIL/DIVING DUCKS BASIC SURVEY	W-58-R-4	II	21	2	NJ	03
MULTIPLE HABITATS	STATEWIDE WILDLIFE SURVEY GROUSE AND WOODCOCK PLANNING	W-9-R-34	V	20	2	NH	05
	GAME BIRD STUDIES HARVEST	W-104-R-21	11-1	7	0	NM	06
	GAME BIRD STUDIES HARVEST	W-104-R-21	17-1	6	0	NM	12
	GAME BIRD STUDIES HABITATS-GENERAL	W-104-R-21	15-1	5	0	NM	11
	STATEWIDE GAME SURVEYS & INVENTORIES QUAIL/PHEASANT/TURKEY/FRANCOLIN LIFE HISTORY	W-18-R-6	I/V	32	2	HI	02
	STATEWIDE WILDLIFE SURVEYS & INVENTORIES PHEASANT/CHUKAR/DOVE/GROUSE POPULATIONS	W-170-R-5	1	90	2	ID	14
	STATEWIDE WILDLIFE RESEARCH GEESE/MERGANSER/COOT/GALLINULES/DUCKS/DOVE/WCOCKS HARVEST	W-26-R-12	XVII	27	2		20
	STATEWIDE WILDLIFE RESEARCH PHEASANT/GROUSE/QUAIL/FURBEARERS POPULATIONS	W-130-R-12	II	163	2	MT	14

MAR 1981
GAME BIRDS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
	UPLAND GAME BIRD INVESTIGATIONS CULTURE/REARING	W-70-R	XII	68	3	WA	03
	STATEWIDE GAME MANAGEMENT SURVEY GAME BIRDS AND MAMMALS PLANNING	W-53-R-31	4-2	18	2	AZ	05
	STATEWIDE GAME MANAGEMENT SURVEY BIG GAME/MIGRATORY AND GAME BIRDS HARVEST	W-53-R-31	2-1	828	2	AZ	02
NOT APPLICABLE	UPLAND GAME BIRD STUDIES PARTRIDGE AND MOURNING DOVE RESEARCH TECHNIQUES	W-81-R-28	XI	21	1	NY	08

MAR 1981
UPLAND BIRDS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
AGRICULTURAL LAND	STATEWIDE WILDLIFE SURVEY WOODCOCK/MOURNING DOVE POPULATIONS	W-9-R-34	II	1	2	NH	02
MULTIPLE HABITATS	WILDLIFE RESEARCH & SURVEYS IN IOWA RABBIT /QUAIL/PHEASANT POPULATIONS	W-115-R-8	14	4	3	IA	14

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CURRENT FEDERAL AID RESEARCH - WILDLIFE

MAR 1981
ENDANGERED BIRDS

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	ENDANGERED SPECIES CAPTIVE REARING PROJECT ALALA/NENE/KOLOA CULTURE/REARING	W-18-R-6	VII	20	2	HI 03
	FISH & WILDLIFE INVESTIGATIONS FRUIT BAT/FRUIT & GROUND DOVE/GUAM RAIL/SWIFTLET BASIC SURVEY	FW-2-R	W-5	38	3	GU 04
	ENDANGERED SPECIES RECOVERY PLAN ENDANGERED WILDLIFE PLANNING	W-18-R-6	IV	5	2	HI 05
	STATEWIDE WILDLIFE MANAGEMENT ENDANGERED BIRDS AND MAMMALS BASIC SURVEY	W-45-12	ESRI	2	2	KY 07
	NONGAME WILDLIFE STUDIES ENDANGERED BIRDS AND MAMMALS LIFE HISTORY	FW-17-R-8	I	26	2	NM 14

MAR 1981
MIGRATORY BIRDS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
	STATEWIDE GAME MANAGEMENT SURVEY BIG GAME/MIGRATORY AND GAME BIRDS HARVEST	W-53-R-31	2-1	828	2	AZ	02
	UPLAND GAME INVESTIGATIONS DOVES/BAND-TAILED PIGEON/COMMON SNIPE POPULATIONS	W-47-R-29	I	53	2	CA	02
NOT APPLICABLE	MIGRATORY BIRD PUBLICATIONS BASIC SURVEY	W-88-R-26	6-1	34	1	CO	18

MAR 1981
MIGRATORY GAME BIRDS

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
MULTIPLE HABITATS	STATEWIDE GAME MANAGEMENT SURVEY HARVEST	W-53-R-31	3-2	24	2	AZ	04

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ALL WILDLIFE

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
LABORATORY	WILDLIFE DISEASE INVESTIGATIONS WILDLIFE/DISEASE DISEASES/PARASITES	W-134-R	2	1	2	CO 22
INDOOR LAB	STATEWIDE RESEARCH PROJECT DISEASES/PARASITES	W-56-21	I	6	3	AR 01
	WILDLIFE MANAGEMENT STUDIES DISEASES/PARASITES	W-57-6	G1	10	3	NC 14
AGRICULTURAL LAND	ALASKA WILDLIFE RESEARCH AGRICULTURE/WILDLIFE INTERACTIONS PLANNING	W-21-2	A18.6	61	2	AK 35
FOREST LAND	STATEWIDE WILDLIFE RESEARCH DEER/BL BEAR/WOODCOCK/RUFFED GROUSE/NONGAM/MAN PLANT CONTROL	W-141-R-16	216	8	2	WI 15
WETLANDS	STATEWIDE WILDLIFE RESEARCH PRAIRIE CHICKEN PESTICIDES POLLUTION	W-141-R-16	407	6	2	WI 23
MULTIPLE HABITATS	GAME INVESTIGATIONS GENERAL POLLUTION	W-67-R-1	VIII	7	2	VA 10
	WILDLIFE MANAGEMENT STUDIES BIRDS/MAMMALS DISEASES/PARASITES	W-57-6	G1	10	3	NC 14
	WILDLIFE SURVEYS & INVENTORIES PLANNING	W-126-R-9	IV	39	1	NY 31
	WILDLIFE SURVEYS & INVENTORIES FURBEARERS/TURKEY/BL BEAR/WATERFOWL/W-T DEER BASIC SURVEY	W-126-R-9	II	140	1	NY 30

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	WILDLIFE ENVIRONMENT WILDLIFE AND ITS ENVIRONMENT DEVELOPMENT-DEGRAD	FW-18-R-8	I	54	5	NM 15
	SE COOPERATIVE WILDLIFE DISEASE STUDY DISEASE/WILDLIFE DISEASES/PARASITES	W-28-24	1	6	2	TN 01
	WILDLIFE RESOURCE PLANNING DEVELOPMENT-DEGRAD	W-107-R-7	II	20	3	TX 15
	WILDLIFE RESOURCE PLANNING PLANNING	W-107-R-7	I	210	3	TX 14
	COOPERATIVE WILDLIFE DISEASE STUDY WILDLIFE/DISEASE DISEASES/PARASITES	W-29-24	A	6	2	SC 06
	STATEWIDE WILDLIFE MANAGEMENT WILDLIFE AND DISEASE DISEASES/PARASITES	W-45-12	WDRI	8	2	KY 11
	STATEWIDE ENVIRONMENTAL INVESTIGATIONS FISH/BIRDS/MAMMALS BASIC SURVEY	FW-3-9	3-9	97	2	LA 09
	STATEWIDE WILDLIFE SURVEYS & INVENTORIES DEVELOPMENT-DEGRAD	W-170-R-5	4	169	2	ID 17
	STATEWIDE GAME MANAGEMENT SURVEY LIFE HISTORY	W-53-R-31	1-2	4	2	AZ 30
	STATEWIDE GAME MANAGEMENT SURVEY LIFE HISTORY	W-53-R-31	4-1	8	2	AZ 34
	STATEWIDE GAME MANAGEMENT SURVEY LIFE HISTORY	W-53-R-31	3-4	37	2	AZ 33
	STATEWIDE GAME MANAGEMENT SURVEY LIFE HISTORY	W-53-R-31	1-4	12	2	AZ 32
	STATEWIDE GAME MANAGEMENT SURVEY LIFE HISTORY	W-53-R-31	1-3	3	2	AZ 31

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	WILDLIFE INVESTIGATIONS LABORATORY UPLAND GAME/WATERFOWL/NONGAME/PARASITES DISEASES/PARASITES	W-52-R-25	I	93	2	CA 10
	STATEWIDE WILDLIFE RESEARCH WILDLIFE AND DISEASE DISEASES/PARASITES	W-41-28	IA	26	2	FL 02
	STATEWIDE WILDLIFE SURVEYS MORTALITY	W-47-3	IA	6	2	GA 30
	WILDLIFE DISEASE STUDY ALL WILDLIFE/DISEASE DISEASES/PARASITES	W-28-24	28-24	6	2	GA 33
	SOUTHEASTERN COOPERATIVE WILDLIFE DISEASE STUDY DISEASES/PARASITES	W-39-24	I	6	3	AL 09
NOT APPLICABLE	STATEWIDE WILDLIFE INVESTIGATIONS LIFE HISTORY	W-35-28	III	23	3	AL 03
	SE COOPERATIVE STATISTICS PROJECT MANAGEMENT TECHNIQUE	FW-1-21	1-21	10	2	GA 35
	STATEWIDE WILDLIFE RESEARCH PLANNING	W-26-R-12	XXXIV	6	2	IN 22
	MORTALITY & DISEASE INVESTIGATIONS WILDLIFE AND DISEASE MORTALITY	W-13-R-37	5	9	1	NB 14
	PUBLICATION OF HUNTING & FISHING GUIDES PUBLISH HUNTING REGS/ETC MANAGEMENT TECHNIQUE	FW-52-R	1	30	2	NB 22
	PUBLIC ATTITUDES TOWARD WILDLIFE ECONOMICS	W-146-R-6	IV	2	1	NY 37
	PUBLIC ATTITUDES TOWARD WILDLIFE USERS	W-146-R-6	VIII	12	1	NY 40

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
MULTIPLE HABITATS	STATEWIDE NONGAME INVESTIGATIONS BASIC SURVEY	W-53-R-7	1	139	2	NV 06
	NONGAME WILDLIFE BOBCAT/CANIDS BASIC SURVEY	W-54-R-13	IV	52	2	CA 15

BEST DOCUMENT AVAILABLE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
	UPLAND GAME INVESTIGATIONS QUAIL/PHEASANT/TURKEY/SQUIRREL PLANT PRODUCTION	W-47-R-29	IV	63	2	CA	05
	MIDDLE MISSOURI RIVER DRAINAGE INVESTIGATIONS DEER/ELK/BIGHORN/PHEASANT/GROUSE/GEESE BASIC SURVEY	FW-3-R-9	1-B/C	16	4	MT	17
	STATEWIDE WILDLIFE MANAGEMENT COTTONTAIL/QUAIL/DOVE HARVEST	W-45-12	SGSI	10	2	KY	01
	WILDLIFE RESEARCH & SURVEYS IN IOWA RABBITT/QUAIL/PHEASANT POPULATIONS	W-115-R-8	14	4	3	IA	14
	STATEWIDE WILDLIFE SURVEYS FURBEARERS/UPLAND GAME HARVEST	W-49-R-28	15	17	2	IL	23
	STATEWIDE WILDLIFE INVESTIGATIONS & SURVEYS PHEASANT/GROUSE/TURKEY/DOVE/RABBITS BASIC SURVEY	W-65-RD-29	A-4	280	3	UT	04
NOT APPLICABLE	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS RESEARCH TECHNIQUES	W-67-R-21	B-II	12	2	ND	30
	UPLAND GAME PUBLICATIONS LIFE HISTORY	W-37-R-34	22-1	13	1	CO	07

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
LABORATORY	GAME INVESTIGATIONS OPOSSUM/COTTONTAIL/WOODCHUCK/COON/DEER/DISEASE/ETC DISEASES/PARASITES	W-67-R-1	VI	11	2	VA 08
MULTIPLE HABITATS	GAME INVESTIGATIONS DISEASE/GAME/FURBEARERS DISEASES/PARASITES	W-67-R-	I	30	2	VA 03
	GAME INVESTIGATIONS HARVEST	W-67-R-1	VII	6	2	VA 09
	WILDLIFE RESEARCH & INVENTORY COORDINATION RESEARCH TECHNIQUES	W-78-CR-12	1	75	3	WA 05
	STATEWIDE HUNTER HARVEST DEER/ELK HARVEST	W-79-R-12	1	55	3	WA 06
	STATEWIDE WILDLIFE SURVEYS & INVESTIGATIONS DISEASE/GAME SPECIES MORTALITY	W-67-R-21	A-II	14	2	ND 36
	RHODE ISLAND WILDLIFE INVESTIGATIONS BASIC SURVEY	W-23-R-24	VII	8	1	RI 06
	SURVEYS & RESEARCH PHEASANT/QUAIL/PRAIRIE CHICKEN/RABBITT/SQUIRREL POPULATIONS	W-23-R-19	III	59	2	KS 01
	STATEWIDE WILDLIFE MANAGEMENT HARVEST	W-45-12	MSI	91	2	KY 08
	LOWER MISSOURI RIVER BASIN INVESTIGATIONS DEER/ELK/ANTELOPE/GROUSE/PHEASANT PLANNING	FW-2-R-10	1-A	35	2	MT 16
	STATEWIDE WILDLIFE INVESTIGATIONS PLANNING	W-48-R-12	3	792	2	NV 01
	STATEWIDE WILDLIFE INVESTIGATIONS PLANNING	W-48-R-12	2	300	2	NV 01

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #
	STATEWIDE WILDLIFE INVESTIGATIONS PLANNING	W-48-R-12	1	492	2	NV 01
	STATEWIDE WILDLIFE RESEARCH HARVEST	W-104-R-17	1	173	2	MT 01
	STATEWIDE WILDLIFE SURVEYS HARVEST	W-47-3	VIII	3	2	GA 31
	WILDLIFE HARVEST & ECONOMIC SURVEY GAME MAMMALS AND BIRDS HARVEST	W-33-31	I	69	2	FL 01
	WILDLIFE INVESTIGATIONS QUAIL/WATERFOWL/COTTONTAIL/WHITETAIL DEER LIFE HISTORY	W-16-R-30	I	53	2	DE 01
	WILDLIFE HARVEST SURVEY HARVEST	W-121-R-10	1	250	2	CO 20
NOT APPLICABLE	STATEWIDE WILDLIFE SURVEYS HARVEST	W-47-3	VI	29	2	GA 28
	STATEWIDE WILDLIFE INVESTIGATIONS GAME BIRDS AND MAMMALS HARVEST	W-35-28	VI	25	3	AL 05
	STATEWIDE WILDLIFE INVESTIGATIONS HARVEST	W-48-28	VI	32	2	MS 08
	WILDLIFE MANAGEMENT SURVEYS HARVEST	W-95-R-15	XI	26	2	SD 10
	WILDLIFE SURVEYS & INVENTORIES RESEARCH TECHNIQUES	W-126-R-9	I	60	1	NY 29
	GAME INVESTIGATIONS GAME AND FURBEARERS USERS	W-67-R-1	IV	16	2	VA 06

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
	GAME INVESTIGATIONS MANAGEMENT TECHNIQUE	W-67-R-1	III	16	2	VA	05

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
SHRUB-BRUSH RANGE	GAME RANGE RESTORATION STUDIES PLANT PRODUCTION	W-82-R-26	III	11	1	UT	09
MULTIPLE HABITATS	GAME RANGE RESTORATION STUDIES MANAGEMENT TECHNIQUE	W-82-R-26	II	23	1	UT	08
	VIRGIN ISLANDS FISH & WILDLIFE PROGRAM BASIC SURVEY	FW-3-1	IIA-2	3	3	VI	08

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
HARDWOODS (DECIDUOUS)	STATEWIDE WILDLIFE INVESTIGATIONS HARDWOODS PLANT PRODUCTION	W-29-28	VI	7	2	LA	07
MIXED CONIF/HARDWOOD	FOREST WILDLIFE RESEARCH RODENTS/PLANT ECOLOGY PLANT CONTROL	W-105-R-22	11	3	2	OH	09
BAYS/ESTUARIES	WILDLIFE HABITAT INVESTIGATIONS AQUATIC VEGETATION WATER QUANTITY	W-69-R-1	I	7	2	VA	14

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HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF	#
MIXED CONIF/HARDWOOD	FOREST WILDLIFE RESEARCH NONGAME BIRDS/HABITATS PLANT CONTROL	W-105-R-22	12	2	2	OH	10
WATER (MULTI-AQUATIC)	WETLANDS & OPEN WATERS WETLANDS AND OPEN WATER HABITATS-GENERAL	W-140-R-7	I	2	1	NY	33
MULTIPLE HABITATS	WILDLIFE HABITAT INVENTORY HABITATS-GENERAL	W-163-R-3	I	91	1	NY	41
	WILDLIFE HABITAT INVENTORY RESEARCH TECHNIQUES	W-163-R-3	VI	40	1	NY	46
	WILDLIFE HABITAT INVENTORY HABITATS-GENERAL	W-163-R-3	V	10	1	NY	45
	WILDLIFE HABITAT INVENTORY URBAN LANDS HABITATS-GENERAL	W-163-R-3	III	19	1	NY	43
	WILDLIFE ENVIRONMENT WILDLIFE AND ITS ENVIRONMENT DEVELOPMENT-DEGRAD	FW-18-R-8	I	54	5	NM	15
	BIG GAME MANAGEMENT & RESEARCH HABITATS-GENERAL	W-12-R-34	X	3	2	NH	10
	RHODE ISLAND WILDLIFE INVESTIGATIONS PLANNING	W-23-R-24	III	15	1	RI	03
	STATEWIDE WILDLIFE MANAGEMENT BASIC SURVEY	W-45-12 -	FPMSI	6	2	KY	09
	HABITAT MANAGEMENT INVESTIGATIONS RESEARCH TECHNIQUES	W-69-R-1	III	18	2	VA	16
	LANDSAT GROUND COVER CLASSIFICATION RESEARCH TECHNIQUES	W-92-R-1	I	41	3	WA	09

CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
WATER (MULTI-AQUATIC)	MASSACHUSETTS WATERFOWL RESEARCH PROGRAM RESEARCH TECHNIQUES	W-42-R-14	XIV	2	1	MA	12
	WETLANDS & OPEN WATERS WETLANDS RESEARCH TECHNIQUES	W-140-R-7	IV	11	1	NY	35
	WETLANDS & OPEN WATERS WETLANDS RESEARCH TECHNIQUES	W-140-R-7	III	26	1	NY	34
WETLANDS	WILDLIFE HABITAT INVENTORY RESEARCH TECHNIQUES	W-163-R-3	II	20	1	NY	42
	WILDLIFE HABITAT INVENTORY WATER QUALITY	W-163-R-3	IV	42	1	NY	44
	WILDLIFE INVESTIGATIONS WETLANDS/AQUATIC VEGETATION PLANT CONTROL	W-16-R-30	V	8	2	DE	05
MARSH (NON-FORESTED)	UPDATED WETLAND SURVEY HABITATS-GENERAL	W-15-R-37	K	15	1	NB	10

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CURRENT FEDERAL AID RESEARCH - WILDLIFE

HABITAT TYPE	TITLE/SPECIES	PROJECT NUMBER	STUDY	COST 1000'S	QUARTER PROJECT ENDS	REF #	
MULTIPLE HABITATS	FARMLAND WILDLIFE RESEARCH NOT APPLICABLE	W-118-R-14	20	96	3	MI	15
NOT APPLICABLE	FARMLAND WILDLIFE RESEARCH RESEARCH TECHNIQUES	W-118-R-14	12	10	3	MI	14
	STATEWIDE WILDLIFE MANAGEMENT RESEARCH TECHNIQUES	W-45-12	SARI	9	2	KY	10
	WILDLIFE RESEARCH & SURVEYS IN IOWA HARVEST	W-115-R-8	20	28	3	IA	20
	PUBLIC ATTITUDES TOWARD WILDLIFE USERS	W-146-R-6	VIII	20	1	NY	33
	WILDLIFE MANAGEMENT STUDIES HUNTING LICENSE NONDUPLICATION USERS	W-57-6	F2	2	3	NC	15
	COOPERATIV STATISTICS PROJECT MANAGEMENT TECHNIQUE	FW-1-15	1	10	2	NC	16
	RHODE ISLAND WILDLIFE INVESTIGATIONS PLANNING	W-23-R-24	VI	10	1	RI	05
	COOPERATIVE STATISTICS PROJECT MANAGEMENT TECHNIQUE	FW-8-19	A	10	2	SC	07
	COOPERATIVE STATISTICS PROJECT RESEARCH TECHNIQUES	FW-1-R	I	10	2	VA	25

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Section II

Project Objectives

AL 01 Waterfowl

1. Survey and classify existing and proposed water and wetland areas as to their attractiveness, potential value or detriment to waterfowl.
2. Determine waterfowl distribution, composition, population levels, production and harvest.
3. Determine gross ecological changes in wintering waterfowl habitat in the Mobile Delta.

AL 02 White-tailed Deer

1. Measure and evaluate deer harvest on Alabama's wildlife management areas.
2. Monitor deer herd welfare on private lands.

AL 03 All Wildlife

1. Search the literature, prepare and publish semitechnical booklets and leaflets on Alabama's wildlife and its management.

AL 04 Vegetation

1. Collect, identify, catalog and maintain a reference collection of seed specimens for wildlife food habits determination.

AL 05 Game Species

1. Determine total kill, hunter pressure, man-days of use and related data from all WMA's.
2. Measure the effectiveness of regulations and game management practices in Alabama.

AL 06 Vegetation

1. Determine the most consistent and productive species of native, fall and winter mast-producing species in Alabama.
2. Measure mast production trends on State WMA's.

AL 07 Vegetation

1. Determine the vegetative succession patterns and available wildlife foods on a large clear-cut site preparation.
2. Determine wildlife usage patterns at various stages of plant succession.

AL 08 Mourning Dove

1. Determine changes in breeding population of mourning doves (call-count survey).

AL 09 All Wildlife

1. Determine the cause of outbreaks of disease in wildlife and devise controls.

AL 10 Woodcock

1. Measure physical components of diurnal coverts consistently used by overwintering woodcock in Alabama.
2. Statistically compare preferred coverts within and among physiographic provinces of Alabama.
3. Determine, using aerial photographs with ground reconnaisance, the availability of preferred habitats statewide.

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AL 11 Woodcock

1. Measure physical components of coverts consistently used for nesting by woodcock.
2. Statistically compare preferred nesting coverts within and among physiographic provinces of Alabama.
3. Determine, by aerial photographs with ground reconnaissance, the availability of nesting habitat statewide.

AL 12 Furbearers

1. Determine the annual harvest and economic value of the fur resources of the State.
2. Evaluate two new trapping techniques for raccoon that appear to be relatively dog-proof.
3. Evaluate an off-set jaw trap that could reduce alleged foot injuries to dogs.

AL 13 Mourning Dove

1. Determine the proportion of annual mourning dove nesting activity and fledgling production that occurs during September and October.

AL 14 Turkey

1. Determine population characteristics of resident transplanted wild turkeys on the Appalachian Plateau of northeastern Alabama.

AK 01 Moose

1. Measure and assess physiological and productivity parameters among Alaskan moose populations to evaluate quality and quantity of their composition environment.

2. Monitor moose mineral element metabolism by hair and tissue analysis to assess regional geochemical variability, potential deficiencies or toxicities, and forensic applications.

3. Assess natural and induced influences on moose heart rate and body temperatures by biotelemetric monitoring of moose at the Kenai Moose Research Center.

4. Integrate physiology and productivity studies with vegetation and habitat studies conducted by the U.S. Fish and Wildlife Service as per cooperative agreement.

AK 02 Moose

1. Test and evaluate techniques that are potentially useful for determining population status, movements, and other factors necessary for management of moose.

AK 05 Moose

1. Prepare an illustrated manual describing the application of census methods and the calculation of population parameters, and assist game biologists in application of census techniques through workshops and field training programs.

AK 07 Moose

1. Determine sightability difference between yearling and adult moose, and evaluate sex and age biases of composition surveys.

AK 08 Moose

1. Determine extent and causes of yearling moose mortality in Nelchina Basin.

AK 09 Black-tailed Deer

1. Develop capture and telemetry techniques for Sitka black-tailed deer.

2. Evaluate seasonal distribution and determination habitat preference between logged and unlogged habitats.

AK 11 Caribou

1. Ascertain the sex, age and condition of adult caribou dying from natural causes; determine factors causing death and follow a cohort of 50 radio-collared caribou to help quantify natural mortality factors.

AK 12 Caribou

1. Ascertain chronology and quantify sources of caribou calf mortality in the Delta herd between October and June.

AK 13 Caribou

1. Determine the herd identity, general numbers, composition and seasonal movement behavior of caribou which encounter the Haul Road and construction activities within the proposed pipeline corridor.

AK 14 Brown Grizzly Bear

1. Analyze data and prepare publications on selected phases of the Alaska peninsula brown bear investigations, specifically: (1) a comprehensive paper suitable for scientific publication concerning the life history of a coastal brown bear population, and (2) a paper suitable for scientific publication concerning population size and rate of turnover.

AK 15 Brown Grizzly Bear

1. Publish grizzly bear research.

AK 17 Dall Sheep

1. Determine initial lamb production, yearling recruitment, survival, and reproductive frequency in the low quality, dry creek sheep populations and determine these same variables plus age structure in the high quality, deep creek populations.

AK 18 Dall Sheep

1. Compare quality of range (summer-winter) occupied by high and low density populations in order to predict effects of population reductions in low quality sheep areas.

AK 20 Mountain Goat

1. Develop capture and telemetry procedures suitable for monitoring mountain goat movements and determining winter habitat use in southeastern Alaska.

AK 21 Black Bear

1. Delineate populations, determine home ranges and movement patterns, determine population densities, sex and age composition, vulnerability to hunting and mortality by sex and age class and gather basic life history information on black bears in Prince William Sound.

AK 22 Black Bear and Moose

1. Determine densities of black bears on the Moose River flats during May, June, and July.

2. Determine movements and predation behavior of bears tagged on the Moose River flats during May, June, and July.

AK 23 Arctic Fox

1. Determine abundance and reproductive success of Arctic foxes, small mammals and nesting birds.

2. Determine major foods of Arctic foxes.

3. Assess the effects of Arctic fox predation on small mammal and bird abundance and effects of foxes on bird nesting success.

AK 24 Musk Ox

1. Describe habitat types used by reintroduced musk ox populations.

2. Assess the relationships of the study populations to the qualitative and quantitative aspects of forage present and to other ecological conditions of the ranges.

3. Determine the energetics of forage selection seasonally and in relation to the population characteristics of the study herds.

AK 25 Moose

1. Determine baselines by sex, age, season, reproductive status, area, drug used, and excitability and condition for blood, hair and milk parameters in moose, and apply these criteria as indicators of nutritional and general condition of moose in various moose populations over the State.

2. In cooperation with the Denver Wildlife Research Center, develop a basis for quantifying the capacity of the Kenai Moose Range to support moose.

AK 26 Moose

1. Delineate the various populations and subpopulations of moose on the Seward Peninsula, principally on the drainages of the Kuzitrin and Fish Rivers.

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AK 27 Moose, Brown Bear, and Wolves

1. Prepare a technical bulletin of Nelchina Basin predator/prey relationships.

AK 28 Caribou and Grizzly Bear

1. Determine the extent of grizzly bear predation on caribou near the calving rounds of the Western Arctic herd, characterize the sex and age class of grizzly bears that prey on caribou, and determine the effect of availability of caribou as prey and/or carrion on grizzly bear populations.

AK 29 Wolf

1. Determine the rate of immigration and pack formation of wolves in an area of low density surrounding areas of moderate wolf densities.

AK 30 Mountain Goat

1. Determine the seasonal movements of mountain goats in the Kenai Mountains, and the fidelity of goats to given areas within seasons and between years.

AK 31 Marten

1. Compare prelogging marten densities with postlogging densities on specific cutting units of the 1981-86 five-year operating period of Alaska Lumber and Pulp Co.'s 50-year contract.

2. Compare small mammal densities prior to logging with small mammal densities 1-2 years after logging.

3. Determine food availability for marten.

AK 32 Black Bears

1. Determine the reproductive parameters of black bears in Interior Alaska.

AK 33 Carnivores and Big Game

1. Determine the prevalence of Sarcocystis in wild ruminants and carnivores.

AK 34 Cervids and Furbearers

1. Monitor the occurence of various enzootic microbial disease agents in wild ruminants and dependent predators.

AK 35 All Wildlife

1. Review the world literature on agriculture/wildlife interactions, survey other States and Provinces for contemporary problems, and prepare recommendations to minimize such problems in Alaska.

AK 36 Moose

1. Determine seasonal and daily timing and magnitude of mineral lick use.

2. Document moose behavior at mineral licks.

3. Investigate the mineralogic, geologic and hydrologic features that are important for producing mineral lick areas.

AK 37 Big Game

1. Determine the pattern of wildlife use following fire.

2. Relate that pattern of use to size and time of burning, to size and status of pre-burn wildlife populations, and characteristics of the surrounding vegatation.

3. In conjunction with the wildlife management objectives for an area, establish criteria for fire management in that area.

AZ 02 Big Game, Game Birds, and Migratory Birds

1. Develop harvest recommendations and inform the public of hunting opportunities.

AZ 03 Elk

1. Determine discreteness of elk herds within specific management units.

AZ 04 Migratory Game Birds

1. Analyze band recovery data.

AZ 05 Game Mammals and Game Birds

1. Develop operational species management plans for Arizona wildlife.

AZ 6 Nongame Mammals and Nongame Birds

1. Investigate status and prescribe management needs of nongame birds and mammals - restricted habitat or low numbers.
2. Prepare and publish informational guides to nongame birds and mammals.

AZ 07 Pronghorn

1. Determine the adaptability of transplanted antelope into historic ranges.

AZ 08 Bighorn Sheep

1. Adaptability of transplanted bighorn sheep into historic ranges (Ariauxipa Canyon, Virgin Mountain , Blue River and Goat Mountain) will be determined.

AZ 09 Javelina

1. Adaptability of transplanted javelina in the Hualapai Mountain and Burro Creek area.

AZ 10 Otter

1. Determine adaptability of transplanted river otter into historical habitat (Verde, Salt, Gila and Colorado River drainages).

AZ 28 Quail

1. Determine effects of livestock grazing on Gambel quail population levels.

AZ 29 Black Bear

1. Determine population densities.
2. Determine effects of legal harvest, depredation take and other decimating factors.

AZ 30 All Wildlife

1. Prepare manuscript on historical occurrence of wildlife (wild birds and mammals) in Arizona.
2. Publish book and map on biotic communities.
3. Publish various project information.

AZ 31 All Wildlife

Same as above.

AZ 32 All Wildlife

Same as above.

AZ 33 All Wildlife

1. Prepare manuscript on historical occurrence of wildlife (wild birds and mammals) in Arizona.
2. Publish book and map on biotic communities.
3. Publish various project information.

AZ 34 All Wildlife

Same as above.

AR 01 All Wildlife

1. Conduct wildlife parasite and disease investigations and other studies involving disease interrelationships of wildlife and livestock.

AR 02 Waterfowl

1. Conduct aerial statewide inventories of waterfowl populations.

AR 03 Ducks

1. Assist the FWS in banding ducks in the Canadian waterfowl breeding grounds.

AR 04 White-tailed Deer

1. Monitor statewide deer herd welfare through abomasal parasite counts.

AR 05 Waterfowl and Mourning Dove

1. Provide for the trapping and banding, on a statewide basis, of 2,600 waterfowl and 500 mourning doves annually.

CA 01 Waterfowl

1. Monitor breeding and wintering waterfowl populations; determine numbers, distribution, habitat requirements and hunting season mortality.

CA 02 Migratory Birds

1. Determine productivity, distribution and mortality of mourning doves, band-tailed pigeons, and common snipes in California.

CA 03 Cottontail, Tree Squirrel, and Galliformes

1. Determine population trends for resident upland game.

CA 04 Galliformes

1. Establish nonresident and/or resident game birds in game deficient areas.

CA 05 Upland Game

1. Select strains and species of cover and food plants for upland game habitat improvement.
2. Establish importance of oak mast production to upland game.
3. Determine effects of various habitat manipulation procedures on quail populations.

CA 06 Big Game

1. Collect, assemble and present data necessary for proper conservation and management of big game species and their habitats.
2. Develop individual deer herd plans for each herd in the State.
3. Establish a reliable kill figure; determine distribution of kill, hunting pressure, and obtain a black bear hunter profile.

CA 07 Black-tailed Deer

1. Measure the effects of various land uses and treatments on big game habitat and population.

CA 08 Black-tailed Deer

1. Identify key big game habitats and develop and implement plans for preservation and enhancement of their habitat.

CA 09 Black Bear

1. Establish the present status of black bear populations and its habitat.
2. Develop management plans.

CA 10 All Wildlife and Diseases

1. Investigate occurrences of diseases and injuries in game and nongame.
2. Monitor epizootiology of avian cholera in waterfowl.

CA 11 Big Game

1. Develop and monitor animal captures and immobilization techniques.
2. Provide animal restraint training to wildlife technicians.

CA 12 Big Game

1. Analyze and publish food habits of big game animals as data is accumulated.
2. Determine food habits and habitat composition of black bear home ranges.

CA 13 Furbearers

1. Determine distribution, status and habitat relationship of Colorado furbearer mammals.
2. Identify factors affecting their welfare.
3. Develop resource management programs and species management plans for selected furbearers.

CA 14 Hawks, Eagles, Falcons, and Owls

1. Determine distribution, status and habitat relationships.
2. Identify factors affecting their welfare.
3. Develop management program and species management plans for selected raptors.

CA 15 Nongame Birds

1. Maintain species of nongame birds for their intrinsic and ecological value as well as direct benefits to man.
2. Provide for scientific, educational and recreational use of nongame birds.
3. Develop and implement management plans for selected nongame bird species.

CA 16 Nongame Wildlife

1. Maintain species of nongame mammals for their intrinsic and ecological value as well as direct benefit to man.
2. Provide for scientific, educational and recreational use.
3. Develop and implement management plans for selected species.

CO 01 Pheasant

1. Compare pheasant nest site selection, nesting success and brood utilization under different agricultural methods.

CO 02 Grouse

1. Evaluate the effects of changes in hunting regulations on sage grouse populations.

2. Determine vulnerability and population characteristics of sage grouse.

CO 03 Grouse

1. Determine seasonal movement patterns, habitat preferences and population characteristics of sage grouse within the area to be impacted.

2. Prepare a plan for predicting, reducing, mitigating, and rehabilitating areas impacted by mining.

CO 04 Grouse

1. Determine population dynamics and habitat relationships of blue grouse.

CO 05 Grouse

1. Predict the effect of aspen silvicultural practices on blue grouse abundance and distribution.

CO 06 Grouse

1. Determine the distribution and status of sharptails in western Colorado.

2. Determine location of leks, brood areas, winter use sites, population trends and harvest.

CO 07 Upland Game

1. Publish results of P-R studies in technical and semitechnical publications.

CO 08 Wild Sheep

1. Trap and treat sheep with chemotherapeutic drugs for lung worm control.

CO 09 Wild Sheep

1. Determine the distribution and prevalence of contagious ecthyma (or Saguache agent) in bighorn sheep.

2. Define the pathogenicity and mortality potential of the Saguache agent in sheep lambs.

3. Define the species' susceptibility and pathogenesis of the Saguache agent for native ruminant big game species.

CO 10 Waterfowl

1. Estimate breeding densities and production throughout the State.

CO 11 Canada Geese

1. Document breeding and wintering range of Hi-Line population.

2. Analyze band recovery data to determine harvest distribution, rate and survival.

CO 12 Canada Geese

1. Determine distribution, harvest, survival of geese through banding a minimum of 1,000 birds.

CO 13 Ducks

1. Conduct surveys to determine numbers, distribution, sex ratios of wintering mallards.
2. Band 1,500 mallards post season in two areas of western Colorado.

CO 14 Ducks

1. Band a representative segment of mallards from major wintering areas.
2. Determine distribution, harvests, survival.

CO 15 Waterfowl

1. Trap and band a representative sample of ducks in North and South Park and San Luis Valley.
2. Determine distribution, harvests, mortality and survival.

CO 16 Mourning Doves

1. Determine the effects of land use changes on mourning doves.

CO 17 Band-Tailed Pigeon

1. Evaluate the various methods used to census [illegible]-tailed pigeons.

CO 18 Migratory Birds

1. Publish work performed under the P-R program.

CO 19 Coots

1. Determine distribution, breeding biology, harvest and chronology of coots.

CO 20 Game Species

1. Estimate hunter pressure, harvest and recreation use by wildlife species.
2. Issue limited licenses to the public on a timely basis so that harvest goals can be met.
3. Collect age and sex information through check stations and deer and elk dental cementum analysis.

CO 21 Cervids and Diseases

1. Determine the presence/absence of diseases in order to monitor levels of infection and distribution.

CO 22 All Wildlife and Disease

1. Diagnose, describe and inventory diseases occurring in wildlife and recommend control measures where possible.

BEST DOCUMENT AVAILABLE

DE 01 Game Species

1. Determine production, life history characteristics, harvest and mortality factors for certain wildlife species.
2. Determine hunter preference and success for Delaware game species.

DE 02 Waterfowl

1. Determine waterfowl productivity on impounded State hunting areas.

DE 03 Grouse

1. Evaluate survival and reproduction of ruffed grouse liberated in Delaware.

DE 04 Gallinules

1. Establish a self-sustaining, huntable population of exotic pheasants in Delaware.

DE 05 Wetlands/Aquatic Plants

1. Determine an effective herbicide control of the pest plant Phragmites communis.

DE 06 Furbearers

1. Determine trapper activity, furbearer productivity and harvest including incidental loss of nontarget wildlife.

DE 07 Hawks/Eagles/Falcons

1. Determine nesting and reproductive success of ospreys in Delaware's lower bays as an indication of estuarine well-being.

FL 01 Game Species

1. Determine hunter pressure and hunting harvest on major game species occurring statewide and on WMA's.

2. Determine hunter harvest of major game species on WMA's.

FL 02 All Wildlife and Diseases

1. Conduct surveys of the parasites and diseases of selected birds and mammals.

FL 03 Feral Pigs

1. Evaluate population management strategies that will permit sustained yield harvest.

2. Evaluate the effects of habitat changes, particularly mast availability and water levels, on the hog population and their relationship with treatment results.

FL 04 Feral Pigs

1. Determine the distribution of hunting pressure between the dog-hunt and no-dog-hunt areas of the Corbett WMA.

2. Compare the size and composition of hog harvest on the dog-hunt and no-dog-hunt areas on the Corbett WMA.

3. Determine the survival rate of stocked and protected hogs versus resident hogs on the dog-hunt and no-dog-hunt areas of Corbett WMA.

FL 05 Feral Pigs

1. Evaluate the dispersal and movements of stocked hogs.

2. Compare the movements of stocked and resident hogs.

FL 06 Feral Pigs

1. Measure dispersal and survival of wild hogs released on the Everglades WMA.

2. Measure dispersal and survival of wild hogs with established home ranges on the Everglades WMA.

FL 07 Puddle Ducks

1. Measure rate of harvest, origin of harvest, and survival rates of Florida duck population and determine effects of altered bag limit on survival rates.

FL 08 Diving Ducks

1. Determine the prevalance of ingested lead in ringneck ducks wintering in Florida.

2. Determine the effects of lead ingestion on the physical and reproductive condition of ringneck ducks.

FL 09 Bobcat

1. Delineate age-specific reproduction and mortality rates.

2. Determine the optimum harvest season to avoid taking pregnant females and nonprime hides.

3. Evaluate methods currently used to estimate bobcat harvest in Florida.

4. Evaluate the scent-station method for indexing statewide bobcat populations.

FL 10 Black Bear

1. Delineate the current distribution and habitats utilized by black bears in Florida.
2. Describe the year-around foods of black bears in Florida.

FL 11 Black Bear

1. Determine the extent and nature of the Florida bear-beekeeper depredation problem.
2. Identify methods to protect apiaries from bears.

GA 01 Cervids

1. Accurately define the habitat on selected study areas.
2. Determine the approximate deer population density in each study area prior to and after the legal hunting season.
3. Determine harvest, sex, age and condition, and reproductive rates of deer on each study area.

GA 02 Cervids

1. Mark a sufficient number of tags statewide on legally killed deer to enable a significant estimate of kill through a mark:recapture ratio.
2. Determine the number of marked tags in the total number of reported tags and establish the ratio between the number marked and the number of recovered marked.

GA 03 White-tailed Deer

1. Develop a list of cooperating clubs, collect harvest data and determine the feasibility of the technique for collecting statewide deer harvest data.

GA 04 Turkey

1. Determine turkey nest site selection, nesting success and brood rearing range.
2. Investigate the impact of habitat conditions and forest management practices on turkey reproductive success.
3. Determine causes of early poult mortality.

GA 06 Waterfowl

1. Measure standing crops of invertebrate and plant food types needed by breeding woodducks and broods in sustained level and late May- and late June-drawdown impoundments.
2. Measure production and availability of foods for wintering waterfowl in sustained level, and January-, late May-, and late June-drawdown impoundments.

GA 09 Mourning Dove

1. Determine the proportion of annual mourning dove recruitment that occurs in September and October.
2. Determine the comparative recruitment rate between areas in which hunting is permitted and not permitted in early September.

GA 11 Grouse

1. Describe habitat utilization and identify vegetatively sites currently supporting grouse populations on Rich Mountain and Cohutta WMA's.

GA 12 Furbearers

1. Determine age and sex composition of selected furbearer species from the harvest.

GA 13 Rails

1. Monitor mercury levels in coastal Georgia wildlife.

GA 15 Turkey

1. Introduce wild turkeys in selected areas of favorable habitat.
2. Determine the success of wild turkey introductions and factors limiting reestablishment if introductions are unsuccessful.

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GA 17 Black Bear

1. Determine food habits of the black bear in the study region.
2. Determine the annual availability of mast in the study region.
3. Determine forest cover type utilization by black bear in the study region.
4. Locate, describe and determine the extent of usage of den sites by black bear in the study region.

GA 18 Ducks

1. Band waterfowl quotas as assigned Georgia in the Fish and Wildlife Service Migratory Game Bird Banding needs.

GA 20 White-Tailed Deer

1. Reconstruct and project regional deer population levels.
2. Evaluate regional nonharvest mortality of deer.
3. Evaluate regional deer herd condition.
4. Document distribution and possible severity of epizootic hemorrhagic disease.

GA 22 Coyote

1. Establish a "coyote call-back index" in selected counties of Georgia.
2. Determine the authenticity and magnitude of coyote damage to livestock and crops.

GA 23 Turkey

1. Provide data on annual turkey production by brood observation reports.
2. Formulate an annual hunting index by physiographic region and statewide.

GA 24 Quail

1. Formulate an annual quail production index on a physiographic region and statewide basis.
2. Formulate an annual hunting index on a physiographic region and statewide basis.

GA 25 Wood Duck

1. Estimate Georgia's wood duck productivity.
2. Assess the impact of an early wood duck hunting season on Georgia's resident wood duck population.

GA 27 Canada Geese

1. Evaluate potential stocking sites, stock geese, and determine success of introductions in Georgia.

GA 28 Game Species

1. Determine total hunting pressure and harvest of Georgia game species by resident gun hunters.

GA 29 Mourning Dove

1. Provide an index to the Georgia mourning dove breeding population.

GA 30 All Wildlife

1. Estimate the magnitude of highway-related wildlife mortality in the State.
2. Determine some of the factors influencing highway-based mortality.
3. Ascertain the value of highway mortality statistics in indexing the status of wildlife populations in Georgia.

GA 31 Game Species

1. Determine annual bow hunting pressure and harvest for selected Georgia game species.

GA 32 Furbearers

1. Determine trapping harvest of each furbearing species in Georgia.

GA 33 All Wildlife and Disease

1. Determine the cause of outbreaks in wildlife disease and advise on control measures.

GA 35 All Wildlife

1. Provide consultant services to the State on the design and analysis of fish and wildlife research.

GA 36 Furbearers

1. Index annual trends in statewide furbearer populations.

GA 37 Black Bear

1. Determine population density of the Ocmulgee River bear population.
2. Determine the sex and age structure of the Ocmulgee River bear population.
3. Assess the productivity and mortality rates of the Ocmulgee River bear population.
4. Determine movement and den ecology of the Ocmulgee bear population.

GA 38 Furbearers

1. Determine harvest levels, methods and demographic characteristics of furbearer hunters and trappers.

GU 01 Ungulates (Even-toed) and Cervids

1. Monitor size, distribution and harvest of deer and pigs on Guam.

GU 02 Game Birds

1. Monitor size, distribution and harvest of game birds on Guam.

GU 03 Nongame Birds

1. Monitor population trends on Guam and the Northern Mariana Islands.

GU 04 Endangered Mammals and Endangered Birds

1. Monitor and prepare status reports on the Marianas fruit bat, Marianas fruit dove, white-throated ground dove, Guam rail, and swiftlet.

BEST DOCUMENT AVAILABLE

HI 01 Game Mammals

1. Determine status, trends and utilization of game mammals and their associated habitats.

HI 02 Game Birds

1. Determine status, trends and utilization of game birds and their associated habitats.

HI 03 Endangered Birds

1. Evaluate propagation and rearing techniques.
2. Develop recommendations for future projects.

HI 04 Albatroses, etc.

1. Conduct seabird investigations.

HI 05 Endangered Mammals and Endangered Birds

1. Devise endangered species recovery plans.

HI 06 Waterfowl

1. Determine status and monitor endangered waterbird populations.

HI 07 Birds

1. Determine status of palila on Mauna Kee.
2. Determine status of endemic forest birds, particularly the Alala.

HI 08 Geese

1. Determine status and monitor nene populations on Islands of Hawaii and Maui.

ID 02 Elk

1. Determine seasonal movements of elk in relation to vegetational types in Lochra River drainage.

2. Determine sex and age composition and productivity.

3. Determine population distribution, movements and important habitat components of northern Idaho elk herds.

ID 03 Mule Deer

1. Determine dynamics, especially sex and age structure and mortality rates of selected mule deer herds.

2. Implement computer simulation modeling as an aid to improved deer management.

ID 04 Cervids

1. Provide support for research and management activities, such as food habits, aging analysis, testing,and evaluation of techniques.

ID 05 Bighorn Sheep

1. Determine movements, distribution and habitat preference of specific bighorn herds.

2. Locate and survey historical and potential habitats of bighorn for reintroduction or transplant purposes.

ID 07 Big Game

1. Inventory selected critical wildlife areas on basis of plant communities.

2. Recommend methods to maintain and improve habitat.

ID 08 Black Bear

1. Determine status and distribution of selected bear populations in northern Idaho.

2. Determine emigration, immigration, and mortality of bear on study area.

ID 09 Pronghorn

1. Determine seasonal ranges and migration routes for the larger antelope herds in SE Idaho.

2. Determine antelope-wild horse-livestock range relationship.

ID 10 Cervids

1. Ascertain impacts of phosphate mining on big game populations.

2. Establish guidelines to minimize impacts of future mining activities.

ID 14 Game Birds

1. Determine population status and trends.

2. Determine harvest and other mortality.

ID 15 Waterfowl

1. Determine wintering populations and reproduction.

2. Determine harvest and other mortality.

ID 16 Furbearers

1. Determine population status.
2. Determine harvest.

ID 17 All Wildlife

1. Determine if proposed developments affecting the environment have any effect on wildlife.
2. Recommend to minimize or mitigate for any wildlife losses.

ID 18 Elk

1. Determine herd composition, trends and range conditions.
2. Determine harvest and other mortality.

ID 19 Mule Deer

1. Determine herd composition, trends and range conditions.
2. Determine harvest and other mortality.

ID 20 White-Tailed Deer

1. Determine herd composition trends and range conditions.
2. Determine harvest and other mortality.

ID 21 Bighorn Sheep

1. Determine herd composition, trends and range conditions.
2. Determine harvest and other mortality.

ID 22 Mountain Goat

1. Determine herd composition trends and range conditions.
2. Determine harvest and other mortality.

ID 23 Moose

1. Determine herd composition, trends and range conditions.
2. Determine harvest and other mortality.

ID 24 Pronghorn

1. Determine herd composition, trends and range conditions.
2. Determine harvest and other mortality.

ID 25 Mountain Lion

1. Determine trends and range conditions.
2. Determine harvest and other mortality.

ID 26 Black Bear

1. Determine trends and range conditions.
2. Determine harvest and other mortality.

ID 27 Big Game

1. Determine trends and range conditions.
2. Determine harvest and other mortality.

BEST DOCUMENT AVAILABLE

IL 04 White-Tailed Deer and Turkey

1. Gather accurate information concerning the population and distribution of white-tailed deer to properly manage them.

IL 05 Wild Turkey

1. Gather accurate information concerning the population and distribution of wild turkeys.

IL 06 Wild Turkey

1. Gather accurate information on evaluating turkey habitat for restocking purposes.

IL 09 Cottontail

1. Record the incidence of road-killed rabbits.
2. Determine population trends of cottontails.

IL 10 Tree Squirrel

1. Determine sex and age ratios among harvested fox and gray squirrels.
2. Determine fruit production among most producing species.

IL 11 Pheasant

1. Record crowing activities.
2. Record pheasant production census route.
3. Age harvested pheasants on opening weekend.

IL 12 Quail

1. Collect wings for sexing and aging.
2. Record incidences of calling activities.
3. Locate coveys by monitoring vocalization prior to roosting and upon breakup of roost.

IL 13 Mourning Dove

1. Measure late season production of mourning doves.
2. Measure potential for and incidences of lead poisoning of mourning doves.
3. Measure leadshot in fields before and after dove season.

IL 14 Woodcock

1. Census woodcock.

IL 15 Badger

1. Collect information on distribution, abundance and mortality factors of badger in the State.
2. Collect data on sex, age, weight, and standard body measurements, and productivity of badger.

IL 17 Beaver

1. Census beaver population in selected counties.
2. Collect data on sex, age, weight, and productivity of Illinois beaver.

IL 18 Opossum

1. Determine population trends of opossum in Illinois.

IL 19 Skunk

1. Determine population trends and characteristics for striped skunk in Illinois.

IL 20 Raccoon

1. Determine population trends and characteristics.

IL 21 Fox

1. Collect data on sex, age, weight, productivity, and mortality factors on red and gray fox.

IL 22 Coyote

1. Census summer populations of coyotes.
2. Collect data on sex, age, weight, productivity, and mortality factors of coyotes.

IL 23 Furbearers and Upland Game

1. Collect information on annual resident and nonresident hunter harvest of upland game species and furbearers.
2. Collect information on trapper harvest of furbearers.

IL 24 Pheasant

1. Evaluate roadside use by nesting pheasants.
2. Evaluate cooperation by farmers in delayed mowing of seeded graded roadsides.

IL 25 Pheasant

1. Determine use of roadsides by nesting hen pheasants.
2. Monitor trends in land use in primary pheasant range of east-central Illinois.
3. Evaluate present and predict future farmer attitudes and adherence to mowing schedules on a block seeded area.

IL 26 Grasses and Pheasant

1. Determine if use by nesting pheasants would justify seeding of brome-alfalfa along interstate highways rather than fescue as presently prescribed by the Illinois Department of Transportation.

IL 27 Pheasant

1. Develop computer models to facilitate selecting townships in east central Illinois where block seedings have the greatest potential for enhancing local populations of pheasants.

IL 28 Pheasant

1. Determine, by means of radiotelemetry, use of cover by pheasant broods hatched on roadsides where hay and small grain cover for feeding activities are not available.
2. Evaluate the possible need to enhance roadside insect populations and thus improve brood feeding cover.

IL 29 Nongame Birds

1. Determine use of seeded roadsides by nesting songbirds.
2. Identify roadside nesting practices conducive to optimal songbird nesting activities.

IL 30 Grouse

1. Obtain annual inventory of remnant managed flocks of prairie chicken.
2. Determine their status and response to changing land use and experimental management programs.

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IL 31 Grouse

1. Determine and evaluate factors affecting nest success, the placement of nests, and evaluate the use of nest sanctuaries by prairie chicken hens.

IL 32 Grouse

1. Develop and evaluate the diversity, arrangement, and structure of vegetative cover essential for high nest success.
2. Cooperate with the Illinois Department of Conservation, Illinois Chapter of the Nature Conservancy, and other agencies, in the selection and acquisition of tracts suitable for management as sanctuaries for prairie chickens.

IL 33 Fox Squirrel

1. Determine the effect of nest boxes on fox squirrel densities, survival, reproduction and physical condition.
2. Determine what characteristics of the forest environment influences fox squirrel utilization of nest boxes.
3. Determine the effects of tree seed crops on fox squirrel survival, breeding rates, and physical condition.

IL 35 Hardwoods

1. Determine the fate of hickory seedling, seedling sprouts and stump sprouts after clearcutting.
2. Determine if hickory can be increased and maintained by culture in clearcut hardwood stands.

IL 36 Tree Squirrel

1. Prepare guidelines for managing forested habitats for gray and fox squirrels.

IL 37 White-Tailed Deer

1. Determine fawn survival rate.
2. Determine cause and rate of fawn mortality.
3. Determine food habits of coyotes in reference to deer.

IL 38 White-Tailed Deer

1. Determine reproductive rates of white-tailed deer.

IL 39 White-Tailed Deer

1. Determine age of deer from tooth wear method and dental annuli.

IL 40 White-Tailed Deer

1. Determine extent and nature of depredation and determine control method.

IL 41 White-Tailed Deer

1. Determine occurrence and importance of diseases and contaminants found in white-tailed deer.

IL 42 Waterfowl

1. Collate and analyze existing and new data pertaining to waterfowl and their ecology.

IL 43 Cervids

1. Appraise deer range.

IN 01 Pheasant

1. Determine if transplanted wild pheasants, wild pheasant progeny, or pen-reared Western-Iranian Ringneck Cross and Korean pheasants can establish huntable populations in areas outside the pheasant range.

IN 02 Canada Geese

1. Determine whether pen-reared goslings can be used to establish a breeding Canada goose flock on a managed marsh.

IN 03 Quail

1. Revise final report for publication as a bobwhite quail habitat management guide.

IN 04 Raccoon

1. Prepare raccoon management guidelines for Brownstown Ranger District, Hoosier National Forest, to specify habitat requirements for maintaining a harvestable population.

IN 05 White-Tailed Deer

1. Prepare annual harvest recommendations for white-tailed deer statewide and on Camp Atterbury, Jefferson Proving Grounds, Charlestown Army Ammunition Plant, Crane Naval Weapons Support Center, and Mogan Ridge Turkey Management Area.

IN 06 Furbearers

1. Provide harvest recommendations for furbearers based on the annual raccoon population index, and past numbers and values of pelts marketed from all furbearers.

IN 07 Pheasant

1. Determine annual changes in pheasant density and habitat in northern Indiana.

IN 08 Gray Squirrel and Galliformes

1. Determine annual production and harvest trends of turkey, grouse and squirrel.

IN 09 Waterfowl

1. Develop and maintain a DVE surveillance program and a contingency plan for each of the major waterfowl areas in the State of Indiana.

IN 10 Quail

1. Prepare annual recommendations on quail harvest regulations based on the spring breeding potential, annual production indices, past hunting success and sex and age structure of the harvest.

IN 11 Small Game Mammals and Galliformes

1. Estimate annual status and trend of the small game harvest in Indiana.

IN 12 Canada Geese

1. Determine the mortality factors limiting gosling success at the Jasper-Pulaski Fish and Wildlife Area and prepare control recommendations.

IN 13 White-Tailed Deer

1. Develop and implement a system of statewide deer checking stations for determining the magnitude, distribution and composition of the legal kill on both public and private land.

IN 16 Insects

1. Determine tick species, range, hosts, and pathogens they carry in relation to wildlife.

IN 18 Raccoon

1. Measure raccoon density, determine habitat requirements, and prepare management guidelines for raccoons on farmland in south-central Indiana.

IN 19 White-Tailed Deer and Feral Dogs

1. Prepare final report on influence of canine harassment on deer movement and direct and indirect mortality of white-tailed deer as caused by free ranging canines in Jackson and Brown Counties in south-central Indiana from 1970-1976.

IN 20 Waterfowl and Game Birds

1. Determine annual mourning dove and woodcock breeding indices, annual waterfowl production, harvest, and fall and winter population trends, and meet continental banding program goals in Indiana.

IN 21 Quail

1. Evaluate survival of game breeder quail and F_1 quail produced from wild stock as a technique of accelerating population recovery from extremely low population levels.

IN 22 All Wildlife

1. Increase planner awareness of how to incorporate wildlife considerations into planning and zoning decisions.

IA 01 Pheasant

1. Evaluate the influence of pheasant stocking (F_1 birds) on local pheasant populations in 3 State-owned wildlife areas in northern Iowa in relation to quality and quantity of available habitat.

IA 02 Pheasant

1. Determine seasonal population dynamics and habitat use of pheasants in southern Iowa.

2. Determine reliability of pheasant surveys in monitoring winter populations and sex ratios, brood stock and reproductive success.

IA 03 Pheasant

1. Evaluate the benefits and costs of a roadside nesting program in northern Iowa.

IA 04 Pheasant

1. Determine seasonal and yearly variation in cover composition and wildlife use of upland wildlife habitat types on public lands.

IA 05 White-Tailed Deer

1. Determine if aerial deer counts will produce a 95 percent CI within 10 percent of the mean number of deer seen under similar survey conditions.

2. Test effects of observation teams, time of day, weather conditions, and different study areas on survey results using ANOVA.

IA 06 Turkey

1. Estimate turkey population levels in Lucas County and related observed densities to structural and compositional characteristics of seasonal habitats selected by turkeys.

2. Determine reproductive phenologies for wild turkeys in southern Iowa and estimate age- and sex-specific natality and mortality rates.

IA 08 Turkey

1. Determine the success or failure of individual turkey releases.

2. Determine the rate and direction of turkey dispersal from release sites so that a viable population in peripheral areas can be identified.

3. Relate the success of and dispersal from release sites to the types and quality of habitats at release sites.

IA 09 Mallard Ducks

1. Determine movements and behavioral relationships of both mated and unmated mallard drakes.

2. Determine the behavior and reproductive success of the mallard breeding population under varied sex ratios.

IA 10 Waterfowl

1. Publish data in book form on waterfowl as it pertains to Iowa and the Mississippi Flyway.

IA 11 Coyotes

1. Determine the population structure and reproductive potential of Iowa coyotes from tooth sections and reproductive tract.

2. Evaluate the effectiveness of elicited howling responses and scent-post survey visitations as indices to coyote populations.

3. Assess and evaluate the magnitude and chronology of predator-killed livestock.

4. Evaluate livestock husbandry practices and their effect on predation losses.

5. Determine the movements and mortality factors of coyotes by ear-tagging and telemetry.

IA 12 Predators (Mammals) and Birds

1. Determine the relationship of predator population responses and use to the condition and type of nesting cover.

2. Determine the nest success of waterfowl, pheasants and nongame birds under different nesting cover management techniques.

3. Assess predator control efforts upon nesting success by use of aversive agents and trapping.

IA 13 Small Game Mammals and Cervids

1. Develop statistically sound harvest estimates for small game and deer.

IA 14 Upland Birds and Upland Game

1. Provide indices to annual and long-term fluctuations of upland wildlife in Iowa.

IA 15 White-Tailed Deer

1. Collect annual deer population trend data and evaluate population dynamics of the herd for use in setting deer harvest regulations.

IA 16 Grouse

1. Monitor annual and long-term fluctuations in ruffed grouse breeding population levels in northeastern Iowa.

2. Estimate ruffed grouse harvest levels, hunting pressure, and demographic composition of the harvest.

IA 17 Turkey

1. Estimate annual trends in productivity, harvest levels, and hunter success rates which may reflect changes in population status.

IA 18 Waterfowl

1. Document annual breeding duck populations; monitor fall migrations; band sample to determine harvest distribution and survival rates.

2. Cooperate in activities of Mississippi Flyway Council.

IA 19 Furbearers

1. Determine annual statewide harvest of Iowa furbearer resources.

IA 20 Nonspecies Oriented

1. Provide technical expertise to wildlife managers and administrators on hunted wildlife.

2. Provide statistical expertise to the wildlife research biologist.

IA 22 Raccoon

1. Provide indices of annual and long term fluctuations in raccoon populations.

IA 23 White-Tailed Deer

1. Determine causes, rates of mortality and home range and movements of fawns.

2. Determine habitat utilized by fawns and does for rearing activities.

KS 01 Game Species

1. Obtain annual and seasonal population data on quail, pheasants, prairie chickens, rabbits, squirrels.

KS 02 Turkeys

1. Obtain annual hunter performance information and population status data on turkeys.

KS 03 Deer

1. Obtain annual hunter performance data and population status information on deer herds.

2. Determine landowner attitudes toward deer and deer hunting.

KS 04 Pronghorn

1. Obtain annual hunter performance data and herd population status information.

KS 05 Small Game Mammals

1. Obtain annual estimates of harvest and hunter success.

KS 06 Waterfowl

1. Trap and band waterfowl in accordance with the National Banding Plan.

KS 07 Waterfowl

1. Determine the pattern and chronology of waterfowl migrations.

2. Obtain annual estimates and indices of migrating game bird supply/demand, and monitor population trends.

3. Assist and participate in activities sanctioned by the Central Flyway Council.

KS 08 Coyotes and Furbearers

1. Conduct a mail survey of license holders to determine harvests, prices paid, and relative index of population change.

2. Determine age, sex, reproduction potentials of furbearers.

KS 09 Man

1. Determine the recreational use and game harvest on 31 major public hunting areas.

KY 01 Upland Game

1. Determine annual and long-term dove population trends.
2. Determine age structure and the incidence of glandular crop activity in harvested mourning doves.
3. Determine relative population levels, trends and production rates of quail and rabbits.

KY 02 Mourning Dove

1. Determine the proportion of annual mourning dove recruitment that occurs in September and October.
2. Determine the effect of September hunting on mourning dove recruitment.

KY 03 Waterfowl

1. Determine the distribution and abundance of waterfowl in Kentucky.
2. Determine the number of wood ducks and broods on established routes annually.
3. Determine waterfowl harvest trends and hunter activity in Kentucky.
4. Band waterfowl in accordance with assigned quotas.

KY 04 Furbearers

1. Determine distribution and trends in populations of furbearers.
2. Determine size, composition and distribution of the fur harvest.

KY 05 Turkey

1. Determine the distribution and size indices of wild turkey populations.
2. Determine annual wild turkey harvest.

KY 06 1. Determine the frequency and distribution of deer mortalities (nonhunting) as an index to changes in deer population, size and distribution.

2. Determine trends in deer density in selected counties.
3. Estimate annual statewide deer harvest and obtain data on biological parameters of harvested deer.

KY 07 Endangered Mammals and Endangered Birds

1. Monitor the status of rare and endangered birds and mammals.

KY 08 Game Species

1. Obtain game harvest data on specified wildlife management areas.
2. Estimate the type and extent of use on specified wildlife management areas.
3. Determine trends in wildlife populations on specified wildlife management areas.

KY 09 Habitats

1. Monitor and evaluate Federal programs and their effects on wildlife and obtain mitigation for projects anticipated to be detrimental to wildlife.

KY 10 Nonspecies Oriented

1. Provide professional statistical services for the design and testing of wildlife management surveys and research studies to insure the most accurate evaluation of field data and conclusions.

KY 11 All Wildlife

1. Detect, report, and determine the cause and effects of disease and parasitism in wildlife populations and to devise and initiate control measures.

BEST DOCUMENT AVAILABLE

LA 01 White-Tailed Deer

1. Determine physical condition of deer in the harvest and correlate to age class, population density, antler development and adult-fawn ratios.
2. Evaluate deer habitats throughout the State.
3. Monitor deer herd disease, parasite and other mortality factors.

LA 02 White-Tailed Deer

1. Determine how white-tailed deer respond to intensively managed food plots and other forest openings in even-aged loblolly-shortleaf pine forests of Louisiana.

LA 03 Waterfowl

1. Determine migration characteristics, relative size and distribution of waterfowl populations in the State in fall and winter.
2. Assess annual water conditions and waterfowl production, and familiarize selected personnel with Canadian and U.S. waterfowl breeding areas.
3. Determine lead shot ingestion rates in the harvest of mallard, pintail and mottled ducks.
4. Band a sample of 1,000 each of six selected duck species in both the eastern and western zones of Louisiana.
5. Determine pesticide contamination levels, parasite loads and food habits of wood ducks.

LA 04 Mourning Dove

1. Determine changes in the dove breeding population in the eastern management unit (call count).

LA 05 Turkey

1. Identify areas of suitable turkey habitat that should be restocked.
2. Determine the basic factors responsible for the success or failure of turkey releases.
3. Determine seasonal home ranges, habitat preference, nesting success, brood habitat preferences, poult survival and brood ranges.
4. Determine the food preferences and food utilization of wild turkeys in various habitat types.

LA 06 Furbearers

1. Determine food habits, parasites, age and sex structure, reproductive potential and harvest distribution of river otter populations.
2. Determine foods and feeding habits of nutria in coastal marshes.
3. Determine relative bobcat density by habitat types and regions of the State.

LA 07 Plant Ecology

1. Determine tree diameter growth rate, mast production and changes in understory vegetation resulting from thinning timber stand on the Russell Sage WMA.

LA 09 All Wildlife

1. Gather and compile data on fish and wildlife resources, their potential and their needs in the area of public works project influence, and make information available to project planners and sponsors.
2. Develop and record pertinent biological information concerning Louisiana's natural and scenic rivers system.

[redacted]

ME 01 Black Bear

1. Determine the effects of hunting bears with the aid of dogs on a studied population of black bears.

MD 02 Pheasant

1. Determine post-hunting season sex ratios.
2. Obtain information on annual reproduction of pheasants, brood survival and hatching dates.

MD 03 Cottontail

1. Determine hunting mortality rates, annual survival rates and population estimates.

MD 04 Quail

1. Determine mortality rates and annual survival rate estimates of populations on selected WMA's.
2. Determine age ratios, geographic distribution of the harvest and hunter success rates.

MD 05 White-Tailed Deer

1. Determine the magnitude of nonhunting mortality of white-tailed deer by county.
2. Determine the magnitude of crop damage caused by white-tailed deer by county.
3. Determine the fertility of white-tailed deer.
4. Determine the age composition, weight, and antler development of hunter-killed deer.
5. Determine amount of hunter pressure in designated areas.

MD 06 Cervids

1. Determine the distribution of sika deer in Maryland.
2. Determine the home range and movements of sika deer.
3. Develop mortality rates and develop life table for sika deer and compare it to white-tailed deer.

MD 07 Turkey

1. Monitor winter population of wild turkeys.
2. Determine nesting success and population trends of wild turkey broods.
3. Determine sex and age composition of the kill and provide accurate harvest data.

MD 08 Turkey

1. Trap and transplant wild turkeys into suitable unoccupied habitat.
2. Determine status of releases.

MD 09 Turkey

1. Determine the impact of fall, any-sex hunting on a wild turkey population.

[redacted]

MA 01 Hardwoods

1. Initiate an annual survey of mast crops which will provide a mast index that can be applied to the management of various wildlife species.

MA 02 Waterfowl

1. Determine population dynamics of selected waterfowl species by banding and banding analysis.

MA 03 Waterfowl

1. Band a sample of waterfowl both during the preseason and postseason time frames.

MA 04 Puddle Ducks

1. Summarize results of wood duck research in Massachusetts since 1960 and present results in a bulletin.

MA 05 Waterfowl

1. Analyze data resulting from census and banding activities carried out from 1971-1978 and publish results.

MA 06 Waterfowl

1. Inventory waterfowl populations through the fall and winter months.

MA 07 Waterfowl

1. Participate in Atlantic Waterfowl Council activities.

MA 08 Geese

1. Determine the relationship between Canada geese and the commercial and recreational shellfisheries industries.

MA 09 Waterfowl

1. Determine the incidence of lead pellet ingestion in waterfowl harvested in the State.

MA 10 Waterfowl

1. Monitor and analyze any experimental waterfowl season adopted for the State.

MA 11 Waterfowl

1. Develop baseline data necessary for implementing future waterfowl management plans.

MA 12 Wetlands

1. Develop a wetlands file for allowing easy retrieval of all data concerning wetlands complexes.

MA 13 Puddle Ducks

1. Determine the accuracy of winter box checks as a means of monitoring local production of wood ducks.

MI 01 White-Tailed Deer

1. Maintain a herd of experimental animals (deer) to be used in cooperative studies on nutrition.
2. Maintain a herd of experiemntal animals to be used in cooperative studies on physiological parameters.

MI 02 White-Tailed Deer and Shrubs

1. Determine total yearly production and utilization of deer food on research units.
2. Determine herd response to habitat disturbance.

MI 03 White-Tailed Deer

1. Completely analyze data and report results from jobs 7.1, 7.2, 7.3, and 7.4.

MI 04 White-Tailed Deer and Man

1. Determine attitudes of deer hunters towards four levels of habitat manipulation.
2. Determine nature and extent of recreational use at times other than deer season.
3. Determine how habitat manipulation for deer influences nature and extent of recreational use.
4. Determine how level of deer seen influences the quality of recreational experience at times of the year other than deer season.
5. Determine how residents feel about habitat treatment, recreational use, and deer numbers on research unit.

MI 05 Terrestrial Plants and Big Game

1. Work with management to identify problem areas, and to aid management through dissemination of information and/or illustration of techniques learned while conducting previous P-R-approved studies.
2. Determine the feasibility of studies suggested by management.

MI 06 Elk

1. Determine relationships of pellet group density and track frequencies with movements, distribution, and range use patterns of elk.
2. Determine the relative numbers and groups of elk on a discrete area and monitor their response in terms of movements and behavior toward oil development activities.
3. Determine the level of correlation between measurable browsing pressure and numbers of elk.

MI 07 White-Tailed Deer

1. Design a study which will contain several jobs, each of which tests a penned deer finding.
2. Confirm or refute results of penned deer studies which have direct management impact.
3. Determine if nutritional stress in does in winter results in postnatal fawn abandonment.

MI 08 White-Tailed Deer

1. Determine the effects of various harvest strategies upon the population dynamics of white-tailed deer.
2. Determine the effects of various harvest strategies upon the physiology and behavior of white-tailed deer.

MI 09 Man

1. Identify areas of conflict in game area use and prepare management recommendations for dealing with these conflicts.

MI 10 Man

1. Determine the attitudes of landowners and hunters toward hunting on private lands and develop programs which can be used to open more private lands to hunting.

MI 11 Cranes

1. Determine habitat utilized by sandhill cranes in Michigan and evaluate any resultant crop depredation.

MI 12 Hawks/Eagles/Falcons

1. Determine recruitment rate of red-tailed hawk in Alaiedon township and determine the effects of urbanization on the population.

MI 13 White-Tailed Deer

1. Develop technique to estimate deer numbers; evaluate deer repellants; determine influence of corn food patches on deer movements.

MI 14 Nonspecies Oriented

1. Work with management through dissemination of information learned while conducting previous research studies.

MI 15 Nonspecies Oriented

1. Maintain the buildings, grounds, and other research facilities in a respectable and presentable condition.

MI 16 White-Tailed Deer

1. Evaluate effects of law enforcement during deer season.

2. Determine hunter's attitudes toward different levels of wildlife law enforcement patrols.

MI 17 White-Tailed Deer

1. Design a uniform method of collecting in-season illegal deer harvest data.

[redacted]

MS 01 Waterfowl

1. Determine migration dates, patterns and population peaks and fluctuations of waterfowl passing through and wintering in Mississippi.
2. Band a preseason sample of wood ducks.
3. Band postseason samples of mallards, ring-necked ducks and Canada geese wintering in Mississippi.
4. Assist U.S. Fish and Wildlife Service personnel in a cooperative banding program in central Canada.

MS 03 Mourning Doves

1. Determine changes in dove breeding populations.

MS 04 Furbearers

1. Describe the populations, ecology and economic status of nutria in Mississippi.

MS 05 Mourning Doves

1. Determine the proportion of annual mourning dove recruitment that occurs in September and October.

MS 07 White-Tailed Deer

1. Determine the sex-age structure and estimate population levels of white-tailed deer on selected State game management areas.
2. Construct and test a system for collecting input data from public and private lands on a statewide basis and determine health indicators of specific deer herds.
3. Make a survey of Mississippi deer hunters.
4. Determine the most reliable technique for aging white-tailed deer.

MS 08 Game Species

1. Determine annual game harvest and sportsmen views.

MS 09 Raccoon

1. Determine raccoon population trends and characteristics as related to harvest, habitat and disease.
2. Determine the food habits of raccoons living in different ecological conditions.
3. Determine survival and mortality of native wild-trapped and imported, translocated raccoons.

MS 10 Fox

1. Determine the survival schedule of a cohort of red foxes from a study area in the State.

MS 11 White-Tailed Deer

1. Determine the effects of delayed breeding on development of fawns.
2. Determine the effects of delayed breeding on subsequent breeding performance.

MS 12 White-Tailed Deer

1. Determine the movements, home range, and seasonal habitat use in bottomland hardwood areas.

BEST DOCUMENT AVAILABLE

MO 20 Turkey

1. Obtain quantitative estimates of turkey population densities and evaluate impact of harvest mortality.
2. Determine reproduction phenologies and age/sex specific natality and mortality rates/recruitment.
3. Assess seasonal turkey habitat with emphasis on nesting, brood habitat, and winter foods.

MT 01 Game Species

1. Provide reliable estimates of the annual harvest of wildlife populations by administrative unit.
2. Determine production ratios, percentages of harvest by time periods, and hatching chronology of 5 grouse species by wing receipts.

MT 02 Mule Deer

1. Determine habitat usage, population parameters, movements, food habits, and behavioral preferences.
2. Determine the influences/effects of specific limiting factors.
3. Develop and test management methods/guidelines.

MT 03 White-Tailed Deer

1. Determine habitat usage, population parameters, movements, food habits and behavioral preferences.
2. Determine the influences/effects of specific limiting factors.
3. Develop and test management methods/guidelines.

MT 04 Elk

1. Describe and record changes in the environment available to elk.
2. Determine the relationships between elk and their environment, including livestock before, during, and after the modification associated with a timber sale.

MT 05 Antelope

1. Publish the results of previous antelope studies in a comprehensive technical bulletin.

MT 06 Mountain Goat

1. Determine the distribution and population characteristics of the Rocky Mountain goat.

MT 07 Furbearers

1. Monitor the annual harvest levels for 15 species and determine the distribution of harvests.
2. Determine the commercial value of the harvest.

MT 08 Furbearers

1. Determine ecology, status, distribution and habitat usage by river otter, bobcat, lynx, wolverine, marten, and fisher.

MT 09 Partridge

1. Maintain a bibliography of technical and popular articles on Huns and publish an updated bibliography every 5 years.

MT 10 Bats and Mice

1. Determine distribution, population status, and habitat associations of small mammals, big-eared bats, and other Chiropterans.

MT 11 Nongame Birds

1. Determine the distribution, relative population levels, status, and habitat usage for various avian species.

MT 12 Grizzly Bear and Mountain Lions

1. Provide routine and specialized laboratory services to project biologists.
2. Determine the categories, extent, composition of man-caused grizzly bear deaths.
3. Determine numbers, location, and composition of the mountain lion harvest.

BEST DOCUMENT AVAILABLE

MT 13 Big Game

1. Perpetuate or increase the current populations of big game.

2. Determine the status, distribution, and trend of big game populations.

MT 14 Small Game Mammals and Game Birds

1. Obtain qualitative and quantitative data to provide guidelines for managing small game populations.

2. Determine status, distribution, and trend of small game populations.

MT 15 Waterfowl

1. Determine migration patterns, mortality rates, distribution, and population turnover.

2. Determine breeding population and production throughout Montana.

3. Encourage nesting and monitor success of artificial structures for geese.

MT 16 Game Species

1. Continue monitoring big game and game bird populations based on trend areas set up in previous studies and to accumulate a continuous data base against which the impacts of land use changes can be assessed in northeastern Montana.

2. Initiate a baseline study that will document the current status of big game bird populations in McCounty County.

MT 17 Big Game and Upland Game

1. Continue delineation of mule deer, white-tailed deer, antelope, elk and bighorn sheep winter ranges.

2. Continue locating yearlong habitat used by all major big game species.

3. Continue intensive aerial surveys to determine reproduction rates, winter survival and recruitment of big game species present in project area.

4. Attempt to locate bighorn sheep lambing grounds.

5. Emphasize gathering data in Little Rocky Mountains that will substantiate any conflict, if present, between mining and bighorn sheep; emphasize gathering data in southern segment of study area that will substantiate any conflict, if present, between coal exploration and big game.

6. Operate big game checking stations to determine hunting pressure and success in study area.

7. Continue with determination of the extent and location of sage grouse and sharp-tailed grouse breeding grounds and areas of concentration. Known sage grouse and sharp-tailed grouse breeding grounds in the middle segment of the study area will be censused in the spring. Also, sharp-tailed grouse dancing grounds will be censused in past study area in the Winifred area and east of Lower Arrow Creek.

8. Determination of the extent and relative abundance of pheasants in the middle and southern segments of the study area will continue. Pheasant crowing routes will be run along Dog Creek and Warm Springs Creek.

9. Determine relative productivity, distribution and abundance of Hungarian partridge in the project area.

10. Determine if any turkeys remain in the northeast corner of the middle segment of the study area.

11. Work on upland game bird distribution maps will continue in an effort to determine extent and location of upland game bird habitat and factors affecting the amount of that habitat, especially the extent of sagebrush eradication that will impact the area's sage grouse population.

12. Continue waterfowl production surveys of stockponds, reservoirs, streams and rivers to determine composition and extent of waterfowl production in the study area.

13. Continue and intensify Canada goose nesting survey to determine breeding status and habitat utilization for this species along the Missouri River from Holter to Morony Dams. Continue gathering data for determination of instream water flows necessary to protect Canada goose nesting habitat.

14. Determine production figure for upland game species found in the project area.

15. Continue to obtain data on nongame species and rare and/or endangered species found on the project area.

NB 01 Cervids

1. Determine population trends, preseason sex and age ratios, and productivity.
2. Determine population distribution and harvest composition.

NB 02 Antelope

1. Determine population levels.
2. Determine antelope harvest.

NB 03 Waterfowl

1. Determine size and trend of waterfowl breeding population and seasonal movements.
2. Establish a nesting population of Canada geese in Sandhills region.
3. Band an appropriate sample in cooperation with FWS needs and other agencies.

NB 04 Furbearers

1. Determine annual fur harvest by species and revenue derived from harvest.
2. Develop a survey for monitoring raccoon populations.
3. Determine cause of depressed muskrat populations.

NB 05 Cottontail and Tree Squirrels

1. Determine population status and harvest.

NB 06 Pheasant

1. Determine population trends and harvest.

NB 07 Bobwhite Quail

1. Determine population trends and harvest.

NB 08 Turkey

1. Determine population characteristics and trends.
2. Determine harvest of turkeys.

NB 09 Mourning Dove

1. Determine breeding and migrational densities.
2. Determine dove harvest and mortality rates.

NB 10 Wetlands

1. Determine the current status of the wetland habitats.

NB 11 Waterfowl

1. Differentiate closely related waterfowl through analysis of their muscle enzymes.

NB 12 Cervids

1. Develop a technique that can be readily used by field personnel to identify the blood and tissue of cervids.

NB 13 Grouse

1. Determine breeding population trends.
2. Determine harvest distribution and composition.

NB 14 Disease and All Wildlife

1. Provide a historical review and record of all mortality data.

NB 22 All Wildlife

1. Prepare, publish, and distribute hunting and fishing bulletins which inform the public of season dates, regulations, etc.

NV 01 Game Species

1. Develop management plan for immediate and long-range planning.
2. Provide technical assistance on proposed land and water projects.
3. Cooperate with land management agencies to rehabilitate ranges and meadows for wildlife.
4. Determine status, trends and utilization of game populations.

NV 03 Bighorn Sheep

1. Transplant and monitor bighorn sheep of various subspecies to suitable habitat areas.

NV 04 Mountain Lion

1. Estimate mountain lion populations, productivity, longevity and basic habitat, and food requirements in various mountain ranges.

NV 05 Bobcat

1. Determine population densities and dynamics.

NV 06 Nongame Wildlife

1. Determine species distribution and document key habitats.
2. Determine population trends.
3. Evaluate land-use practices on nongame populations.

NH 01 Furbearers

1. Obtain data relative to the annual New Hampshire furbearer harvest.

NH 02 Upland Birds

1. Obtain indices of trends in population size for woodcock and mourning dove.

NH 03 Waterfowl

1. Investigate New Hampshire's waterfowl resources.
2. Contribute data to be used in establishing populations and in the distribution of Atlantic Flyway waterfowl.
3. Aid State and Federal agencies in establishing coordinated waterfowl management.

NH 04 Coyote

1. Monitor the effects of coyotes on game animals through analysis of stomach contents.

NH 05 Game Birds

1. Complete establishment of the Leonard Tract Demonstration Area.

NH 06 Big Game

1. Determine all causes of losses of deer and bear and analyze data.

NH 07 White-Tailed Deer

1. Evaluate the deer habitat management practices on the Kilkenny Wildlife Management Area of the White Mountain National Forest.
2. Compare hunter use and deer harvests with past deer habitat management practices.

NH 08 White-Tailed Deer

1. Determine the extent and causes of winter mortality in northern New Hampshire deer yards.
2. Determine physical condition and reproductive rates of deer killed accidentally.

NH 09 White-Tailed Deer

1. Locate, map and classify deer wintering areas in southern New Hampshire.
2. Operate biological deer checking station in southern New Hampshire.
3. Obtain an index of deer hunting pressure through standardized car counts.

NH 10 Habitats

1. Define ecological regions in New Hampshire.

NH 11 White-Tailed Deer

1. Host the 16th Annual Northeast Deer Study Group meeting and publish transactions.

NH 12 Waterfowl

1. Determine population dynamics of selected waterfowl species by banding and banding analyses.

NH 13 White-Tailed Deer

1. Estimate deer carrying capacity for 7 major forest types in the State.

NH 14 Turkey

1. Restore the wild turkey into suitable habitat in southern part of State.
2. Set up a regional hunting season in the area of Cheshire and Sullivan Counties.
3. Transplant turkeys to other sites in the State.

NH 15 Furbearers

1. Determine the trend in population of certain species of upland furbearers in the State.
2. Establish a minimum population figure for each species and estimate maximum populations.

NH 16 Bobcat

1. Determine the status of bobcats and their needs for long-term management.

NH 17 Black Bear

1. Collect and evaluate biological information for determining sex and age structure and reproductive rates.
2. Manage nuisance bear in conflict with agriculture.
3. Determine a minimum estimated population of bear.
4. Secure biological information from hunters.

NJ 02 Waterfowl

1. Determine waterfowl population mortalities, movements, and harvest rates.

NJ 03 Game Birds

1. Determine annual production trends, populations and harvest of species of wildlife as well as their effects on crops and wetlands.

NJ 04 Waterfowl

1. Determine the efficiency of steel shot pellets and their effect on crippling losses and lead poisoning of waterfowl.

NJ 05 Waterfowl

1. Publish an annual waterfowl booklet summarizing project accomplishments.

NJ 06 Waterfowl

1. Determine the effects of the zoning experiment on the waterfowl harvest and hunter activity.

NJ 07 Furbearers

1. Quantitatively evaluate the efficiency, selectivity, and effect on target species of various trapping systems.

NJ 08 Bobcat

1. Re-establish a wild self-sustaining population of bobcats in areas of suitable habitat within New Jersey.

NJ 09 Furbearers

1. Determine furbearer population dynamics.

NJ 10 Beaver

1. Annually determine the distribution, status, and population trends of beaver.

NJ 11 Otter

1. Determine the distribution and population trends of the river otter

NJ 12 Coyote

1. Record and document all reported occurrences of the eastern coyote.

NJ 13 Black Bear

1. Determine the relative abundance and distribution of black bear in New Jersey.

NJ 14 Furbearers

1. Determine the annual harvest level and recreational economic values of furbearer resources.

NM 01 Quail

1. Determine quail population trends.

NM 02 Waterfowl

1. Distribution and density of wintering waterfowl will be determined.

NM 03 Ducks

1. Mortality rates, distribution, sex and age, and relative recovery rates of High Plains mallards will be determined.

NM 04 Geese

1. Determine mortality, survival rates, distribution, recovery rates, and sex and age of wintering short grass Canada geese.

NM 05 Waterfowl

1. Magnitude and importance of lead poisoning in waterfowl will be determined.

NM 06 Game Birds

1. Trends in annual harvests of resident and migratory birds will be determined.

NM 07 Band-Tailed Pigeon

1. Monitor distribution, flock composition, migration patterns, and abundance of band-tailed pigeons.

NM 08 Mourning Doves

1. Determine annual mourning dove breeding population trends.

NM 09 Mourning Doves

1. Conduct Central Flyway comprehensive dove banding analysis (distribution, mortality, life tables).

NM 10 Mourning Dove

1. Evaluate use of riparian habitat on Rio Grande by mourning doves.

2. Determine the effect of riparian habitat destruction on mourning dove populations.

NM 11 Game Birds

1. Cooperate with other land use agencies on habitat use (bird) problems.

NM 12 Game Birds

1. Disseminate project results pertaining to management needs and harvest and use opportunities.

NM 13 Turkey

1. Determine seasonal distribution, mortality and reproductive success of Merriam's turkey in the Sacramento Mountains.

NM 14 Endangered Birds and Endangered Mammals

1. Determine the needs and status of native mammals and birds that may be endangered or threatened in New Mexico, and enhance the survival through management.

NM 15 All Wildlife and Habitats

1. Determine the environmental impact or effects of proposed projects by State and Federal departments or agencies and private enterprise on wildlife and/or habitat, and provide technical advice and assistance on wildlife environment on lands and waters open to public use.

NY 01 Waterfowl

1. Direct banding efforts in accordance with the Atlantic Flyway plan and New York's needs.

2. Analyze banding recovery data.

3. Assist in operating a banding station.

NY 02 Waterfowl

1. Provide information and instructions on waterfowl population surveys.

NY 03 Waterfowl

1. Analyze all available information that has a direct bearing on waterfwol season-setting decisions.

NY 04 Waterfowl

1. Provide coordination among Regions in all things related to waterfowl management and research programs.

NY 05 Waterfowl

1. Determine the need for a plumbism abatement program in New York.

NY 06 Turkey

1. Stock all potential turkey range with wild trapped and transferred birds.

2. Monitor turkey hunter activity and turkey harvests.

3. Expand hunting opportunity commensurate with turkey population expansion, and promote awareness of nonhunting recreational opportunity.

4. Utilize permit data and information from previous studies in order to regulate hunting.

NY 07 Furbearers

1. Delineate pheasant range in the State and provide a reliable method of relative pheasant distribution on a county level.

2. Develop the means for adequately measuring pheasant harvest.

3. Develop a realistic pheasant stocking policy.

4. Isolate major limiting factors to pheasant distribution and abundance.

NY 08 Game Birds

1. Provide an information "bank" of pertinent biological data for wildlife managers.

2. Assist wildlife managers in implementing standardized survey techniques.

NY 18 White-Tailed Deer

1. Collect, tabulate, and appraise information on big game during hunting seasons so that an assessment of harvest data may be achieved and utilized in the development of hunting season recommendations and other management programs.

NY 19 White-Tailed Deer

1. Determine the relative importance of factors limiting big game abundance, and appraise their differences in various areas of the State.

NY 20 Black Bear

1. Collect and appraise information which will provide a sound basis for effective management of black bear populations.

NY 21 White-Tailed Deer

1. Measure population characteristics, physical condition, and range conditions on the Seneca Army Depot where known deer populations can be determined.

NY 22 Black Bear

1. Determine the present status, including population characteristics, ecology and economic impact of Catskill black bears.
2. Prepare a policy statement regarding future management of bears in the Catskills.

NY 23 White-Tailed Deer

1. Show that substantial increases in the deer population from a selected area in the peripheral Adirondacks can occur if the removal of female deer by other than legal means can be controlled.

NY 24 Big Game

1. Direct a successful big game management program.

NY 25 Snowshoe Hare

1. Describe key successional characteristics and estimate hare carrying capacities of selected snowshoe hare habitats in the State.
2. Prepare a strategic plan for managing the snowshoe hare resource.

NY 26 White-Tailed Deer

1. Develop a method for providing inventory of current vegetation and land use status for two northern New York ecological zones.
2. Provide coordination of data collection with other research contractors.
3. Document and compare the effectiveness and cost-benefit ratios associated with several alternative methods of deer harvest on private land in the Adirondacks.
4. Document and compare summer-fall deer population densities and distribution determined for a variety of habitats on a parcel of private land intensively managed for timber production within the central Adirondack ecological zone.

NY 27 White-Tailed Deer

1. Determine rates and directions of energy exchange between the animal and the environment.
2. Gain an understanding of seasonal rhythms in physiology and behavior in relation to thermal energy flux in different habitats.
3. Mathematically represent the animal's physiological and behavioral responses to weather, animal-animal social interactions, nutritional regimes, and man's activities as a basis for predicting slope areas.

NY 28 White-Tailed Deer

1. Predict the carrying capacity of different habitats in New York.

NY 29 All Wildlife

1. Coordinate field inventories and data collections that are conducted periodically statewide and multi-regionally.

NY 30 Game Species

1. Tabulate data on wildlife species including, but not limited to, legal take, biological statistics, and resource user information.

NY 31 All Wildlife

1. Plan, design, and execute survey and inventory systems and support systems.

NY 32 Birds

1. Determine the relationship between the size of a clearcut or old field and its avian diversity and species richness.
2. Examine the relationship between the avifaunal species diversity and species richness of isolated clearcut and old field plots, and the physiognomic heterogeneity within and adjacent to these areas.

NY 33 Habitats

1. Provide definitions, bibliography, and outline of habitat variables significant to wildife.

NY 34 Habitats

1. Provide technical assistance to the wetlands acquisition program under the Environmental Quality Bond Act of 1972.

NY 35 Wetlands

1. Assess the value and impact of the wetlands habitat management programs statewide and compare current programs with the full spectrum of wetlands habitat management opportunities.

NY 36 White-Tailed Deer

1. Derive an index for managing deer population levels that considers both range carrying capacity and farmer attitudes.

NY 37 All Wildlife

1. Develop conceptual frameworks identifying the various types of economic and non-economic values of wildlife, and describe and quantify as many of these values as possible.

NY 38 Man

1. Increase the awareness of Bureau staff of human considerations related to effective wildlife management.
2. Assist Bureau staff in developing basic skills in human survey research.

NY 39 Nonspecies Oriented

1. Determine the degree to which those taking hunter training courses in New York discontinue hunting and reasons for failure to continue hunting.

NY 40 All Wildlife

1. Discern attitudes held toward species traditionally associated with selected values or costs, the compatibility and effectiveness of management of those species, and the public's satisfaction with the Bureau of Wildlife's efforts to manage those species.

NY 41 Habitats

1. Provide a framework for developing wildlife habitat inventories.
2. Determine the potential utility of various habitat analysis information sources and techniques for wildlife habitat inventories.
3. Design and implement data bases for all wildlife habitat inventories.

NY 42 Wetlands

1. Complete the wetlands inventory.
2. Identify trends in the wetlands resource that would justify or obviate an update of the wetlands inventory.

NY 43 Habitats

1. Inventory urban and suburban lands as wildlife habitat.

NY 44 Wetlands

1. Determine the degree to which the Freshwater Wetlands Act, as implemented by the D.E.C. and local governments, has been effective in protecting freshwater wetlands.

NY 45 Habitats

1. Identify the significant and critical wildlife habitats of the State.

NY 46 Habitats

1. Provide distribution services for habitat inventory data.

NC 01 Mourning Doves

1. Secure information on annual mourning dove production and breeding population trends.

NC 02 Turkey

1. Monitor turkey populations statewide with emphasis on managed areas and restoration areas.
2. Document progress of the restoration program and population responses to habitat and regulatory changes.

NC 03 Turkey

1. Determine the productivity of turkeys obtained from native Mountain and Piedmont populations and released into a southern Appalachian habitat.
2. Determine the causes of mortality of restocked wild turkeys in a southern Appalachian habitat.
3. Determine the dispersal behavior of restocked wild turkeys in a southern Appalachian habitat.
4. Determine characteristics of nesting sites selected by restocked turkey hens.

NC 04 Woodcock

1. Band 400 woodcock annually in Hyde County.

NC 05 Black Bear

1. Determine basic parameters of the black bear population from hunter kills and observations.

NC 06 Black Bear

1. Determine and compare specific population characteristics and movements of a sanctuary and nonsanctuary population.

NC 07 White-Tailed Deer

1. Monitor white-tailed deer populations throughout the State.
2. Evaluate the deer restoration program.
3. Document the effects of various habitat management and regulation proposals on deer populations.

NC 08 White-Tailed Deer

1. Ascertain deer density levels in northeastern part of State.
2. Determine the structure, fecundity, and general physiological condition of the deer herds in northeastern North Carolina.
3. Delineate management units and prescribe sound harvests for deer populations in northeastern part of State.

NC 09 Fox and Raccoon

1. Determine the numbers and distribution of raccoons and foxes harvested annually.
2. Implement census techniques for use in obtaining information of fox and raccoon populations.

NC 10 Cottontail

1. Determine habitat use by cottontails.

NC 11 Raccoon

1. Determine dispersal and survival of nonnative raccoons released in mountain habitats.
2. Determine raccoon hunter success rates in mountain habitats which are stocked, unmanaged, previously closed to hunting or previously closed and stocked.

NC 12 Waterfowl

1. Quantify changes in water quality as related to marsh succession and management regimes on managed impoundments.
2. Measure aquatic food plant production on managed impoundments.
3. Determine statewide waterfowl population trends, fluctuations and species composition of the fall flight and wintering population.
4. Determine the numbers and species of waterfowl harvested, the distribution of the harvest across the State, and hunter success rates.
5. Obtain band-return data to estimate survival and movement patterns of waterfowl.

NC 13 Waterfowl

1. Determine the distribution and composition of the dominant vegetation and benthic organisms occurring on the study area.
2. Determine the habitat preferences of six species of waterfowl using the study area during the wintering period.
3. Describe, quantitatively, the behavioral ecology of waterfowl populations during the winter period.

NC 14 All Wildlife

1. Identify wildlife diseases, their causes and implications, and devise and recommend remedial measures.

NC 15 Nonspecies Oriented

1. Estimate the extent of nonduplication in the North Carolina hunting license files.

NC 16 Nonspecies Oriented

1. Provide competent statistical services in support of the State's research and survey activities.

ND 01 Pheasants

1. Develop harvest recommendations for pheasants that will result in the greatest sustained use of the resource.

ND 02 Grouse

1. Develop harvest regulations for sharptail grouse and sage grouse that will result in the greatest sustained yield.

ND 03 Turkey

1. Trap wild turkeys from high density areas and transplant to suitable habitats elsewhere.

ND 04 Grouse

1. Establish a huntable ruffed grouse population in the Killdeer Mountain area.

ND 05 Partridge

1. Develop harvest regulations for Hungarian partridge that will result in the greatest sustained yield.

ND 06 Turkey

1. Obtain information on population trends, distribution, and harvest for regulatory processes.

ND 07 Grouse

1. Obtain population and harvest data to monitor areas of highest bird density.

2. Monitor grouse color phase changes in relation to populations.

ND 08 Cottontail

1. Obtain population and harvest data that will assist in obtaining game status.

ND 09 Tree Squirrel

1. Develop harvest regulations for squirrels that will result in the greatest yield.

2. Determine species distribution and harvest pressure.

ND 10 Grouse

1. Determine grouse seasonal movements and habitat usage in order to develop cutting recommendations.

ND 11 Pheasant

1. Obtain quantitative records of land use patterns and compare with pheasant population data.

ND 12 Deer

1. Determine population trends, harvest by sex, age and species, abundance and distribution by deer unit.

ND 13 Pronghorn

1. Estimate population densities, sex, production ratios, and harvest figures by sex and age.

ND 14 Bighorn Sheep

1. Conduct and evaluate a census technique which will provide data on herd structure, distribution and density.

2. Evaluate the effects of stress from overcrowding, surplus of rams, lungworms and/or energy developments on the herd.

ND 15 White-Tailed Deer

1. Determine deer density estimates, sex ratios, and production data.

ND 16 Cervids

1. Determine plant species composition, condition, trend and deer usage.

ND 17 Cervids

1. Obtain population estimates and distribution of moose and elk and its recreational potential.

ND 18 Cervids

1. Demonstrate the effects of domestic and big game animals on woody plant communities.

ND 19 Waterfowl

1. Obtain population and harvest data in order to manage waterfowl populations properly.

ND 20 Canada Geese

1. Determine annual trends, age ratios, population turnover, rate and effects of different harvest regulations to TGP goose population.

ND 21 Mourning Dove

1. Determine population size, density and production of doves.
2. Determine harvest distribution, harvest rates and mortality.

ND 22 Geese

1. Determine the most efficient method of re-establishing and maintaining a breeding population of giant Canada geese resulting in 1,000 pairs of breeders.

ND 23 Furbearers

1. Collect data and derive regulations for mink, muskrat, and beaver.

ND 24 Canids

1. Derive regulations which will provide a predictable sport harvest of fox and coyote.

ND 25 Fox

1. Test the hypotheses that annual red fox reproductive performance is age and condition related and not population density or mortality related.

ND 26 Fox

1. Determine the mechanics of hunting/trapping mortality.

ND 27 Coyotes

1. Determine if discrete, behaviorally separate family groups of coyotes exist in the spring as countable entities.

ND 28 Prairie Dog

1. Establish viable populations of prairie dogs in suitable habitats.

ND 29 Partridge

1. Determine changes in land use patterns and see if there is a correlation with changes in population indices.

ND 30 Upland Game

1. Statistically evaluate all upland game survey data to separate and eliminate those which are wasteful or nonfunctional.

ND 31 Geese

1. Cooperate in developing a management plan and collecting necessary data for responsible conservation and exploitation of the goose population.

ND 32 Fox

1. Determine if all or part of the annual reproductive increment can be chemically altered by oral administration of treated baits.

ND 33 Fox

1. Determine the mechanics of annual dispersal as influenced by various factors to include population density, sex, age, litter size, etc.

ND 34 Bobcat

1. Annually obtain harvest data, sex and age composition, and harvest distribution.

ND 35 Furbearers and Disease

1. Determine the effect of raccoon distemper on wild carnivores.

ND 36 Game Species and Disease

1. Determine the cause, scope and intensity of morbidity or death in selected game birds and mammals.

ND 37 Small Game Mammals and Disease

1. Check for neutralizing antibodies of EHD in epizootic areas in small mammals.

ND 38 White-Tailed Deer and Disease

1. Determine if whitetails are reservoirs for EHD and if there is a progressive buildup of EHD between die-offs.

ND 39 Coyote and White-Tailed Deer

1. Determine the number of coyote families consuming white-tailed deer and the relative amounts of deer to other prey species during the denning season.

OH 01 Canada Geese

1. Annually develop regulations to use hunter harvest of migrant Canada geese in Ohio, to the greatest possible degree, on a predictable basis that will not impair the potential of flyway populations.

OH 02 Canada Geese

1. Annually develop optimum harvest regulations of nesting Canada geese that will not impair the potential of established local Canada goose flocks.

OH 03 Wood Ducks

1. Annually develop wood duck regulations that will permit optimum production and harvest of wood ducks without impairing future populations.

OH 04 Waterfowl

1. Determine fall and winter migrational trends, distribution and rate of harvest and total annual mortality, nesting success, population structure of migrants, and species, sex and age ratios from the harvest.

OH 05 Waterfowl

1. Serve as technical advisor to Chief, Ohio Division of Wildlife, who is Ohio's voting delegate to the Mississippi Flyway Council.

2. Participate as Ohio's representative in the technical sessions of the Mississippi Flyway Council.

3. Carry out Technical Session Committee assignments involving collection of waterfowl data required for Council studies and activities.

OH 06 White-Tailed Deer

1. Collect harvest, accidental kill, and deer condition data for management purposes.

OH 07 Turkey

1. Trap and transplant wild turkeys into unoccupied and understocked range.

2. Collect census, survey and harvest data.

OH 08 Grouse

1. Establish guidelines for ruffed grouse habitat management by evaluating regeneration cutting practices.

OH 09 Rodents and Plant Ecology

1. Establish guidelines for small mammal habitat management and document changes in vegetation following clearcutting.

OH 10 Nongame Birds and Habitats

1. Determine seasonal nongame bird population and habitat utilization before and after regeneration timber harvests.

2. Describe and measure habitat occupied by nongame birds before and after regeneration timber harvests.

OH 11 Grouse

1. Develop and recommend ruffed grouse harvest regulations.

OK 01 Furbearers

1. Develop methods to statistically evaluate and analyze survey data for furbearers.

OR 01 Mule Deer

1. Design a prototype system for censusing mule deer on winter range.

OR 02 Disease

1. Determine the causative agents of mortality in the State's wildlife.
2. Determine physical condition and reproductive rates of selected wildlife populations.

OR 03 Cervids

1. Provide fiscal control, supervision, assistance in planning, design and data analysis and coordination.

OR 04 Cervids

1. Determine relative cover values to elk of the major habitats in the Blue Mountains.
2. Define forest-wildlife relationships (guidelines) for use in management of elk and deer habitats in the Blue Mountains.

OR 05 Pronghorn

1. Determine habitat requirements of antelope in Oregon.
2. Determine reproductive rates and fawn mortality rates and causes.
3. Determine relationship between habitat and fawn survival.

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PR 01 Pelicans/Cormorants

1. Determine the distribution and population size of brown pelicans in Puerto Rico.
2. Determine the location and physical and vegetational characteristics of breeding colonies and major roosts.
3. Characterize the feeding ecology of the brown pelican.
4. Determine the timing and duration of the breeding season, clutch size, brood size, and reproductive rates of brown pelican in Puerto Rico.
5. Determine the occurrence of environmental contaminants in brown pelicans.

RI 01 Woodcock and Mourning Dove

1. Collect data on local mourning dove populations and productivity.
2. Survey local woodcock populations and investigate management potential.
3. Determine survey needs and collection and reporting techniques of past data relating to webless species other than mourning dove and woodcock.

RI 02 Canada Geese and Ducks

1. Determine prehunting season and midwinter waterfowl numbers and distribution.
2. Monitor and analyze for lead and other environmental pollutants that may affect waterfowl.
3. Band waterfowl in cooperation with the Atlantic Waterfowl Council and FWS.
4. Monitor, on a selected area basis, the status of Rhode Island Canada goose populations.
5. Determine the extent of hunter participation,and species composition and abundance of waterfowl during special or bonus seasons.
6. Publish results of investigations, surveys and management practices.
7. Determine the feasibility of an in-depth resident waterfowl study.

RI 03 Habitats

1. Update existing work plans related to wildlife management areas.

RI 04 White-Tailed Deer

1. Obtain current data on the structure and status of the Rhode Island deer herd.
2. Develop deer management plans for Prudence Island, Block Island, and other lands as needed.

RI 05 Nonspecies Oriented

1. Attend, participate and plan meetings pertaining to wildlife and their environment.

RI 06 Game Species

1. Conduct surveys and questionnaires relating to hunting and wildlife resources.

RI 07 Furbearers

1. Determine the feasibility of an in-depth furbearer study.

RI 08 Waterfowl

1. Determine population dynamics of selected waterfowl species by banding and banding analysis.

SC 01 Turkey and White-Tailed Deer

1. Monitor the trends in physical condition of white-tailed deer harvested annually from State game management areas.

2. Monitor the trends in physical condition of wild turkey harvested annually from State game management areas.

3. Collect sample specimens of parasites, organs, tissues, etc., for examination to assist in determining the physical condition of game species.

SC 02 Cottontail and Quail

1. Determine the home range and movements of rabbits along rights-of-way after maintenance techniques have been modified by mowing strips and establishing patches or strips of permanent green pastures and low growing shrubs at selected intervals along the rights-of-way.

2. Determine season population levels of rabbits and vegetation utilized along the rights-of-way with modified maintenance techniques being practiced.

3. Determine the harvest of rabbits along rights-of-way maintained with reference to harvest from the control area.

4. Determine the effects of introducing quail food plantings on quail population levels along power line rights-of-way that are maintained by mowing every three years.

SC 03 Quail

1. Study the effectiveness of establishing quail food plots through use of different techniques within areas clearcut for pine regeneration in the Sandhill soils.

2. Study the effectiveness of establishing quail food plots through use of different techniques within areas clearcut for pine regeneration in the Piedmont soils.

3. Evaluate the effectiveness of certain quail food and cover plants on roads constructed during site preparation for pine pulpwood plantations with the Sandhill and Piedmont regions.

4. Study the edge effect created between woodland borders, road right-of-way borders, and adjacent areas that are regenerated to pine plantations in the Sandhill and Piedmont regions.

SC 04 Wild Turkey

1. Monitor relative population dynamics of the wild turkey population established through stocking on the Savannah River Project Rearing Area; determine the availability of birds for restocking other lands throughout South Carolina.

2. Survey areas being considered for stocking and classify each area for habitat quality, quantity, and longevity, and develop a priority list of areas to be stocked.

3. Survey areas stocked with wild turkeys to evaluate the success of releases and determine the availability of birds for limited trapping.

SC 05 Wild Turkey

1. Monitor continuing changes in statewide turkey population trends.

SC 06 All Wildlife and Disease

1. Determine the cause of outbreaks of disease in wildlife and devise controls.

SC 07 Nonspecies Oriented

1. Provide consultant services to the State on the design and analysis of wildlife research and develop sound and efficient statistical techniques for such design and analysis.

SD 01 Pheasant

1. Obtain an index to annual pheasant population density and reproductive success.
2. Obtain information on harvest, hunting success, etc., and winter sex ratios and population.

SD 02 Grouse

1. Estimate breeding prairie grouse populations, production, and harvest characteristics.

SD 03 Partridge

1. Obtain information on production and harvest.

SD 04 Quail

1. Determine breeding population and harvest characteristics.

SD 05 Turkeys

1. Determine population trends, production, distribution and hunter success.

SD 06 Waterfowl

1. Determine distribution and harvest statistics.

SD 07 Cervids

1. Determine deer population trends, movements, browse utilization, and harvest characteristics.

SD 08 Pronghorn

1. Determine population and sex ratio, reproduction, and harvest statistics.

SD 09 Hawks/Eagles/Falcons

1. Inventory nesting raptor populations and determine reproductive success.
2. Create nesting sites in selected areas.

SD 10 Game Species

1. Publish South Dakota Hunting Guide.

SD 11 Mountain Goat

1. Determine body condition, range, status, and trends of goat populations in Black Hills.

SD 12 Furbearers

1. Determine the number of furbearers harvested and monetary value of furbearer harvest.

SD 13 Bobcat

1. Determine age characteristics, including survival and mortality rates of bobcats.
2. Obtain an index to winter bobcat populations.

SD 14 Elk

1. Determine range, status, trend, general body condition of elk in Black Hills.

SD 15 Elk

1. Determine the population status and trend of elk in Custer State Park.

SD 16 Big Game and Disease

1. Monitor the disease status of big game animals in Custer State Park.

BEST DOCUMENT AVAILABLE

TN 01 All Wildlife and Disease

1. Determine the cause or causes of disease outbreaks in wildlife and the disease interrelationships of wildlife and livestock in Tennessee.

TN 02 Small Game Mammals

1. Determine trends in small game hunting and harvest success.

TN 03 Small Game Mammals

1. Develop, evaluate and coordinate operational plans for farm game management.

TN 04 Mourning Dove

1. Determine trends in the breeding population index of mourning doves.

2. Determine the proportion of annual mourning dove recruitment that occurs in September and October.

TN 05 White-Tailed Deer

1. Determine white-tailed deer harvest, productivity, physical condition, and demographic characteristics, and estimate population numbers and surpluses with computer models.

TN 06 White-Tailed Deer

1. Determine trends and annual status of deer range conditions.

TN 07 Feral Pigs

1. Determine population trends, annual harvest, distribution and demographic characteristics of European wild hog in Tennessee.

TN 08 Turkey

1. Determine trends and demographic characteristics of wild turkeys and identify and classify occupied and unoccupied habitat.

2. Monitor movements, behavior patterns, mortality factors, and population trends of recently released wild turkeys.

3. Investigate factors that may be limiting turkey population on the highland rim physiographic region.

TN 09 Game Mammals and Game Birds

1. Develop, evaluate and coordinate operational plans for forest game management.

TN 10 Turkey

1. Determine trends and demographic characteristics of ruffed grouse populations.

TN 11 Raccoon

1. Determine the status of the raccoon and raccoon hunting in Tennessee.

2. Develop proven management practices to increase and maintain adequate raccoon populations.

3. Develop an orderly system to regulate, evaluate, and minimize the risk of raccoon importations by private groups.

TN 12 Waterfowl

1. Develop, evaluate and coordinate operational plans for wetland game management.

TN 13 Waterfowl

1. Determine abundance, distribution, species composition, and demographic characteristics of the migratory waterfowl populations in the State.

2. Obtain basic information regarding waterfowl migration and wintering habitats.

TN 14 Canada Geese

1. Establish and maintain a colony of resident giant Canada geese.
2. Determine size, distribution and demographic characteristics of established flocks.
3. Develop harvest management techniques and strategies for those flocks producing a huntable surplus.

TN 15 Black Bear

1. Develop a management plan for the black bear in the southern Appalachian Mountains.

TX 01 White-Winged Dove

1. Formulate white-winged dove harvest regulations.

TX 02 White-Winged Dove

1. Inform public of population levels, feeding areas, and location of concentrations in the Rio Grande Valley.
2. Determine fall population levels.
3. Locate feeding areas in Rio Grande Valley of Texas.

TX 03 White-Winged Dove

1. Manipulate white-winged dove feeding flights to distribute population and improve hunting opportunity.

TX 04 White-Winged Dove

1. Determine stability of the Central American wintering grounds of whitewings nesting in northeastern Mexico and southern Texas.

TX 05 White-Winged Dove

1. Determine discreteness and population dynamics of various segments of whitewings in Tamaulipas, Mexico, and Texas.

TX 06 Mourning Dove

1. Determine mourning dove breeding population density and distribution.

TX 07 Mourning Dove

1. Determine mourning dove losses and causative factors.

TX 08 Mourning Dove

1. Distribution, derivation, recovery and mortality rates, movement, and the effect of hunting mourning doves in the Central Flyway will be determined.

TX 09 Mourning Dove

1. Determine the effect of hunting on nesting success of mourning doves.

TX 10 Waterfowl

1. Formulate waterfowl harvest recommendations.

TX 11 Waterfowl

1. Locate and categorize potential waterfowl habitat on lands under the management of State and Federal agencies within the State.

TX 12 Waterfowl

1. Monitor seasonal losses of waterfowl excluding harvest, and apply remedial treatment.

TX 14 All Wildlife

1. Categorize and type-map vegetation statewide.
2. Write strategic plan.
3. Assist program directors and species program leaders in writing operational plans.
4. Review and comment on environmental impact statements and related documents received via the A-95 review process.
5. Evolve ecological management units and facilitate species management.

TX 15 All Wildlife

1. Evaluate impacts of water development projects and surface mining activities and plan to mitigate losses.
2. Develop general plans, license and overall operating plans for mitigation lands received by the Department.

TX 16 Tree Squirrel

1. Determine current distribution patterns of fox and grey squirrels.

TX 17 Tree Squirrels

1. Determine feasibility of a study - determine the impacts of forest management practices on squirrels.

TX 18 Turkey

1. Determine movement of Rio Grande turkeys from established roost sites.

TX 19 Big Game

1. Formulate big game harvest regulations.

TX 20 Big Game

1. Situate big game transplants.

TX 21 White-Tailed Deer

1. Evaluate the east Texas deer habitat.

TX 22 White-Tailed Deer

1. Determine age and weight and antler characteristics of harvested whitetails.

TX 23 White-Tailed Deer

1. Factors contributing to formation of spike antlers in whitetails will be determined.

TX 24 White-Tailed Deer

1. Determine white-tailed deer antler development under field conditions.

TX 25 White-Tailed Deer and Big Game

1. Determine the influence of axis and sika deer and black buck antelope on white-tailed deer survival and reproduction in enclosures.

TX 26 Mule Deer

1. Determine age composition, field dressed weight, and antler development of harvested mule deer.

TX 27 Peccaries

1. Determine the effect of hunting pressure on javelina populations.

TX 28 White-Tailed Deer

1. Determine net productivity of known-age does.

TX 29 White-Tailed Deer

1. Determine the effects of baiting white-tailed deer on hunter success.

TX 30 White-Tailed Deer

1. Determine influence of genetics on antler quality and body size of white-tailed deer under native range ocnditions.

UT 01 Mule Deer

1. Determine and assess the effects of recreation and home subdivisions on mule deer habitat.

UT 02 Cervids

1. Determine harvest, sex and age composition, population trend and movements, condition and trend of range.

UT 03 Furbearers

1. Determine potential beaver habitat, population dynamics, and harvest.

UT 04 Upland Game

1. Conduct annual inventories; determine annual harvest, population trends, distribution, and movements.

UT 05 Black Bear and Cats

1. Determine harvest and sex-age composition.

UT 06 Pheasants

1. Develop a pheasant habitat management program for implementation and evaluation.

UT 07 Cervids

1. Select plant species which have potential for establishment, growth, survival, reproduction, and benefit for wildlife.

UT 07 Plant/Animal Ecology

1. Develop and test methods to maximize seed production, harvest methods, and equipment and cost effectiveness of techniques.

UT 09 Plant/Animal Ecology

1. Determine planting and cultural techniques for shrub and herb establishment.
2. Assist in the development and testing of efficient and economical planting equipment.

UT 10 Mule Deer and Vegetation

1. Determine percent of fill, germination characteristics, and longevity of selected plants.

UT 11 Cervids and Shrubs

1. Develop plant species which are beneficial for wildlife.

UT 12 Cervids and Terrestrial Plants

1. Determine the effect of site condition on cover, successional plant changes and forage production.

UT 13 Cervids, Rabbits and Terrestrial Vegetation

1. Determine the relative effects of deer livestock and rabbits on plant succession and ground changes.

UT 14 Cervids and Terrestrial Vegetation

1. Determine the effects of sod-forming grasses and site characteristics on controlling regrowth of Gambel oak.

UT 15 Cervids and Terrestrial Vegetation

1. Determine forage production and utilization of all plant species.
2. Evaluate response of big sagebrush, bitterbrush, and herbaceous species in relation to moderate and heavy fall grazing by domestic sheep on deer winter range.

UT 16 Cervids and Terrestrial Vegetation

1. Compare differences in species composition, phenological development, and production on logged and thinned areas, natural wet meadows, and dry meadows as they influence deer and elk diet composition and nutritional values.

UT 17 Mule Deer and Grasses

1. Determine the significance of crested wheatgrass in the diet of wintering mule deer.
2. Determine the effects of spring livestock grazing on overwinter utilization.

UT 18 Cervids and Vegetation

1. Assess responses of vegetation to spring grazing by domestic sheep on foothill ranges used by wintering deer and elk.

UT 19 Cervids and Mixed Hardwood/Conifers

1. Assess the utility and validity of twig diameter measurements for determining utilization on browse plants important to wintering big game.

UT 20 Mule Deer and Terrestrial Vegetation

1. Determine the importance of various vegetal types, livestock grazing, and climate to mule deer on ranges with limited summer habitat.

UT 21 Waterfowl

1. Determine waterfowl usage, breeding population trends, migration and mortality.
2. Determine harvest, hunter participation, and bag composition.
3. Determine the effect of water and soil conditions on plant species composition and interspersion of plant cover.

UT 22 Mule Deer

1. Determine vegetative types, composition, ownership, production, age and class form of vegetation on big game ranges.

VT 01 Waterfowl

1. Determine annual changes in waterfowl population levels and mortality through census, banding, nest checks and hunting surveys.

VT 02 Canada Geese

1. Investigate those ecological requirements and behavioral aspects of Canada geese which have practical implications for their management in Vermont.

VT 03 Waterfowl

1. Coordinate Vermont's waterfowl project with cooperative research and management programs of the Atlantic Flyway.
2. Provide for dissemination of State waterfowl project results.

VT 04 Canada Geese

1. Determine the effects of controlled waterfowl hunting on State management areas.

VT 05 Furbearers

1. Determine the legal harvests of bobcat, river otter, fisher and beaver.
2. Provide a precise biological basis for regulation formation.

VT 06 Furbearers

1. Identify and inventory critical furbearer habitats.

VT 07 Bovids and Furbearers

1. Investigate all facets of furbearer-domestic animal interactions.

VA 01 Black Bear

1. Continuously monitor and evaluate the status and condition of Virginia's black bear population.

VA 02 White-Tailed Deer

1. Monitor the status and condition of Virginia's deer population.
2. Provide population control, maximum antlered buck harvests and economic benefits, minimum economic losses, and objective information on which to base management decisions.

VA 03 Game Species and Disease

1. Determine the cause, or causes, of disease outbreaks among game and furbearing mammals.

VA 04 Game Mammals

1. Continuously identify and seek methods for reducing or controlling serious game damage to crops or property.

VA 05 Game Species

1. Identify and keep current the research needs of the Game Division.

VA 06 Furbearers and Game Species

1. Periodically estimate number of participants, amount of effort expended, and success of Virginia's hunters and trappers.

VA 07 Mammals and Quail

1. Determine if, and to what extent, species exhibiting antibody titers can produce a bacterium.

VA 08 Game Species and Disease

1. Conduct a wildlife inventory.

VA 09 Game Species

1. Develop a system of annually monitoring hunting pressure and other recreational uses on public lands.

VA 10 All Wildlife

1. Monitor oil and/or hazardous substance contamination of land, water and air, and determine damage assessments of wildlife due to contamination.

VA 11 Turkey

1. Continuously monitor and evaluate the status and condition of wild turkey populations.

VA 12 Grouse

1. Obtain data regarding relative annual abundance and productivity of the ruffed grouse in the State.

VA 13 Quail

1. Monitor the status and condition of bobwhite quail.

VA 14 Plant Ecology

1. Determine the effects of salinity changes and turbidity levels upon submerged aquatic vegetation in Back Bay.

VA 15 Turkey and Vegetation

1. Determine the effects of clear-cutting on spring seeps.

BEST DOCUMENT AVAILABLE

VA 16 Habitats

1. Develop a technique for estimating potential wildlife populations through habitat evaluations on game management areas.

VA 17 Mourning Dove

1. Continuously monitor and evaluate the status and condition of Virginia's dove population.
2. Determine the proportion of annual mourning dove recruitment that occurs in September and October.

VA 18 Woodcock

1. Continuously monitor and evaluate the status and condition of the woodcock population.
2. Determine the effect of habitat manipulation by clearcut timber harvest, rolling chopper clearing and prescribed burning on woodcock use.

VA 19 Waterfowl

1. Continuously monitor and evaluate the status and condition of waterfowl populations of the Atlantic Flyway.
2. Determine the capability of southeastern wood duck populations to sustain additional harvest.

VA 20 Furbearers

1. Monitor the status and condition of furbearer populations.

VA 21 Furbearer

1. Monitor populations of furbearers via scent stations.

VA 22 Otter and Bobcat

1. Monitor status and condition of bobcat and otter populations.

VA 23 Bobcat

1. Collect distribution and population data from harvest and scent station reports.
2. Collect reproductive data for determining suitable rates of harvest.
3. Synthesize all data and construct a population model for predicting population trends.

VA 24 Otter

1. Determine current reproductive rates for river otter populations in eastern Virginia.
2. Construct life tables for river otter populations in the eastern part of the State.
3. Determine tissue levels of PCB's, kepone, lead and cadmium in river otters.

VA 25 Nonspecies Oriented

1. Provide statistical services for the Virginia Commission of Game and Inland Fisheries.

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VI 04 Columbiforms

1. Determine the effect of soldier crabs on zenaida dove nest success.

VI 05 Columbiforms

1. Determine the home range of Columba leucocephala, Zenaida aurata, and Geotrygon mystacea by radio-tracking.

2. Band Virgin Islands columbids.

VI 06 Ducks

1. Determine annually the status, distribution and nest success of Virgin Island waterfowl.

VI 07 Pelicans/Cormorants and Charadriliforms

1. Determine annually the location, population size, movement patterns, season and success of nesting.

VI 08 Plant/Animal Ecology

1. Determine plants important to wildlife.

VI 09 Birds and Mammals

1. Determine the occurrence and distribution of exotic wildlife species.

WA 01 Waterfowl

1. Determine status of fall flights, winter populations, and hunter kill of waterfowl.
2. Develop a statewide waterfowl management plan.

WA 02 Grouse

1. Determine population status of sage grouse.
2. Monitor movements in habitat types.
3. Analyze effects of hunting pressure.

WA 03 Game Birds

1. Determine costs of rearing game birds.
2. Compare methods with commercial operations.
3. Recommend future program.

WA 04 Galliforms

1. Determine population trend and annual harvest of upland game.

WA 05 Game Species

1. Provide supervision and administer research and inventories of the P-R program.

WA 06 Game Species

1. Determine annual harvest of game species.

WA 07 Cats

1. Monitor and evaluate harvest of cat species.
2. Radio-collar and monitor movements and natural mortality of cat species.
3. Determine food habits and reproductive status of native cats.

WA 08 Bovids

1. Determine current populations and distribution.
2. Identify and evaluate habitats.
3. Develop management plan.

WA 09 Habitats

1. Develop and map habitat type distribution and abundance statistics for eastern and western Washington.

WV 01 Turkey

1. Determine population dynamics of wild turkeys through collection of harvest, productivity and population indices data.
2. Determine the role of hunting regulations on harvests and hunting of wild turkeys.
3. Determine habitat use patterns and effects of habitat alteration on wild turkeys.

WV 02 Grouse

1. Determine aging and sexing criteria for ruffed grouse.
2. Determine relative annual abundance and productivity of ruffed grouse.

WV 03 Gray Squirrel

1. Determine gray squirrel populations.

WV 04 Big Game and Disease

1. Identify and determine the nature, extent, and prevalence of diseases and parasites among big game animals in the State.

WV 05 White-Tailed Deer

1. Maintain and analyze records of legal kills and other mortalities.

WV 06 Black Bear

1. Determine population dynamics via mortality records.
2. Analyze movement data via radio telemetry.
3. Publish a popular bulletin on black bear.

WV 07 Raccoon

1. Determine the raccoon population density in southern West Virginia.
2. Determine the impact of summer mortality through illegal hunting and dog training.
3. Determine characteristics of land features, vegetation, human density-distribution as they relate to raccoon populations.
4. Monitor canid, feline, and mustelid populations using the scent post index technique.

WI 01 Grasses

1. Develop and evaluate techniques for meeting wildlife habitat needs on State areas through establishment of grasses, sedges, and legumes and the control of undesired vegetation by fire, mechanical and chemical means.

WI 02 Quail

1. Implement and evaluate program of habitat restoration and winter feeding designed to increase bobwhite quail densities within areas of Richland County.

WI 03 Cottontail

1. Design, implement, and evaluate a program of food and cover management intended to increase cottontail densities on a segment of Brooklyn Wildlife Area.

WI 04 Waterfowl

1. Measure waterfowl production, related wildlife use, and public use on waterfowl production units (WPU's) in Wisconsin emphasizing potential habitat limitations and management needs, in relation to regional waterfowl production capabilities.

WI 05 White-Tailed Deer

1. Measure seasonal forage utilization by agricultural-range deer in relation to food availability, while at the same time evaluating herd productivity, monetary losses from deer-vehicle collisions, and techniques for assessing deer damage to tame hay.

WI 06 Fox

1. Determine the age structure, incidence of mange, reproductive performance and harvest levels of red foxes by county for a two-year period.

WI 07 Partridge

1. Provide wildlife managers with current information on status of gray partridge.

WI 08 Pheasant

1. Pheasant inventories for management purposes will be conducted.

WI 09 Puddle Ducks

1. Determine if electric fencing around dense nest cover will effectively reduce nest losses to predation.

WI 10 Grouse

1. Demonstrate and evaluate responses in ruffed grouse populations and harvests in relation to management costs during the first 18 years of a coordinated forest-wildlife habitat program.

WI 11 White-Tailed Deer

1. Provide wildlife managers with current information on deer population levels, production, mortality, and impact of harvests necessary to develop sound harvest recommendations.

WI 12 White-Tailed Deer

1. Evaluate the impact of complete removal and subsequent re-introduction of deer on: (a) forest ecology and range condition following a period of low deer numbers; and (b) population buildup, body weights, antler growth, and productivity, to aid in adjusting overwinter deer population goals for Sandhill and similar areas in central Wisconsin.

WI 13 Grouse

1. Evaluate changes in ruffed grouse numbers and distribution in response to a long range management program in which wildlife production is a primary goal; demonstrate practices applicable to the oak-aspen forests of central Wisconsin and similar ranges.

WI 14 Black Bear

1. Develop indices capable of estimating regional bear densities within 20 percent, and determine the allowable harvest rate.

WI 15 All Wildlife

1. Develop guidelines for planning and constructing forest openings based on site measurements, development costs, and evaluations of changes in composition and abundance of forage and wildlife species resulting from recently constructed openings.

WI 16 Bobcats

1. Develop a system for monitoring statewide bobcat population trends and test field surveys to determine relative abundance in local areas.

WI 17 Otter

1. Determine population status and allowable harvest rates of Wisconsin's otters and develop a field index to their populations.

WI 18 Grouse

1. Measure harvest rates and assess dispersal of ruffed grouse in central Wisconsin.

WI 19 Bears

1. Conduct bear inventories for research and management purposes.

WI 20 Ducks

1. Determine the impact of a major waterfowl development project on the local breeding population of ducks.

WI 21 Predators (Mammals) and Ducks

1. Monitor waterfowl use on the Horicon study area and relate the physical properties of the cover and the size and location of nesting fields to nest predation by mammals.

WI 22 Canada Geese

1. Determine behavior and distribution of radio-marked Canada geese at Horicon Marsh and Grand River Marsh in relation to the program to redistribute Canada geese in the Mississippi Flyway.

WI 23 Grouse and All Wildlife

1. Determine if drift of aerial-applied pesticides occurs over nontarget wildlife management lands and if drift occurs, determine if drifting pesticides inhibit cholinesterase in bird life on study area.

WY 02 Big Game

1. Obtain population and distribution samples of big game species in 200 herd units following procedures described in Handbook of Biological Techniques (pp. 1-85).

WY 03 Big Game

1. Model 200 big game herd units according to procedures described in Handbook of Biological Techniques (pp. 285-296).

WY 04 Cervids

1. Determine the effects of trona mining on vegetation, soil and wildlife including amounts and distribution.
2. Determine the effects of malnutrition on pregnant elk including feed digestibility and nutrient intake during gestation and location.
3. Determine protein patterns of game animal meat and blood.

WY 05 Big Game

1. Determine population, productivity, body condition, mortality rates, distribution, and range trend for deer and bighorn sheep.
2. Develop means of evaluating and controlling deer damage on private lands.
3. Determine carrying capacity of preferred habitats.

Appendix I

STUDY TYPE TABLE

Amplification of the Research/Survey Classification

A. GENERAL - BROAD-BASED STUDIES THAT ENCOMPASS WIDE AREAS

01 - Planning - Statewide planning, management planning, river basin planning, area planning

02 - Users - fishermen surveys, hunter surveys, recreation surveys, non-consumptive users, opinion polls

03 - Economics - value of catch or harvest, value of experience, value of fish, wildlife or wilderness, value to locality, State or Nation

04 - Research techniques - general, sampling, tagging, tracking, collecting, trapping, reporting, development of methods for research

B. ANIMAL-ORIENTED - SPECIES-ORIENTED

05 - Life history - general animal ecology

06 - Systematics - distribution, meristics, races, serology, cytotaxonomy, morphometry, zoogeography

07 - Anatomy & physiology - scales, bones, pelage, structure, sexual dimorphism, plumage, moulting, digestion, nutrition

08 - Food habits - quantity, quality, competition, depredation, cannibalism

09 - Reproduction - fecundity, fertility, reproductive behavior, breeding cycles, spawning, incubation, spawning grounds, sex pheromones, attractants, repellents, sterilants

10 - Age & growth - age determination, scale reading, otoliths, teeth, antlers, eye lens, rate of growth, stunting, longevity

11 - Mortality - natural, unnatural, storms, temperature changes, floods, highway, towers, fences, powerhouse intakes, irrigation ditches, mowing, predation

12 - Diseases & parasites - incidence, causes, treatment, epidemics, bacteria, protozoa, virus

13 - Behavior - diurnal, diel, aggressive, discrimination, home range, alarm signals, schooling aggregation

14 - Migration - seasonal, annual, navigation, homing routes

15 - Populations - dynamics, fluctuations, year-classes, cycles

16 - Harvest - management survey, creel census, bag check, special regulations, commercial harvest, fur harvest, gear restrictions, quotas, evaluation of regulations

17 - Animal control - shooting, trapping, poisoning, predators, disease, repellant, sterilization, fencing, frightening techniques

18 - Culture & rearing - spawning, breeding, fertilization, incubation, feeding, water, genetics, nutrition

19 - Stocking - species, strain, race, stamina, number, age, sex ratio, conditioning, time, transportation, handling, release, survival, evaluation, introduction, reintroduction, reestablishment

C. ENVIRONMENTAL-ORIENTED - HABITATS

20 - Habitats - general

21 - Water quantity - flow control, water level control, drawdown, tide gates, gut plugs, impoundments, diking, stock tanks, guzzlers, watering device, potholes, level ditching

22 - Water quality - oxygenation, destratification, liming, outflow control, fertilization, silting basin, temperature modification

23 - Food production or provision - food planting, feeding device, artificial feeding, bulldozing, controlled burning

24 - Plant production - tree and shrub planting, timber management, herbaceous seedings, erosion control plantings

25 - Plant control - cutting, burning, chemical control, creation of openings, chaining, cabling, dozing, thinning, grazing, insects, plant diseases

26 - Reproduction aid - nest boxes, spawning channels, courtship sites, nest structures, spawning marsh, spawning ground, fawning or calving grounds, brush piles

27 - Passage & movement - fishways, fish licks, guide fences, tunnels, deflectors, ladders, watergates, louvers, counting chambers

28 - Barriers - fish screen, big game fence, barrier dams, livestock fence

29 - Stream improvements - stream clearing, deflectors, wing dam, rip-rap, contouring, terracing, gabions

30 - Lake improvements - brush shelters, cleared areas, edging, fish attractor, access

31 - Coastal improvements - artificial reefs

D. ENVIRONMENTAL DETERIORATION

32 - Channelization - stream straightening, deepening

33 - Dredging - hydraulic dredge, channel deepening, navigation

34 - Filling - bulkheading, spoilbanks, development

35 - Draining - drainage ditches

36 - Irrigation - canals, siphons, intakes

37 - Dams - reservoirs, hydroelectric, navigation

38 - Mining - strip, mine tailings

39 - Agriculture - clear farming

40 - Forestry - clearcutting, block cutting, rotation cutting, selective cutting

41 - Highways

42 - Airports

43 - Developments

E. POLLUTION

44 - Industrial

45 - Mining

46 - Agricultural

47 - Domestic

48 - Thermal

49 - Oil

50 - Heavy metals

51 - Pesticides

52 - Siltation

53 - General

54 - Aquacultural

F. OTHER

60 - Management techniques

61 - Not applicable

62 - Basic survey - monitoring activities usually of a broad environmental nature which often utilize a variety of study types

Appendix II

OBLIGATION BY STUDY TYPE OF STATE WILDLIFE RESEARCH SUPPORTED BY P-R FUNDS ($1,000's)

STATE	PLANNING (01)	USERS (02)	ECONOMICS (03)	RESEARCH TECHNIQUES (04)	LIFE HISTORY (05)	SYSTEMATICS (06)	ANATOMY & PHYSIOLOGY (07)	FOOD HABITS (08)	REPRODUCTION (09)	AGE & GROWTH (10)	MORTALITY (11)	DISEASES & PARASITES (12)	BEHAVIOR (13)	MIGRATION (14)	POPULATIONS (15)	HARVEST (16)	ANIMAL CONTROL (17)	CULTURE & REARING (18)	STOCKING (19)	HABITATS - GENERAL (20)	WATER QUANTITY (21)	WATER QUALITY (22)	FOOD PRODUCTION (23)	PLANT PRODUCTION (24)	PLANT CONTROL (25)	REPRODUCTION AID (26)	FOREST DEGRADATION (40)	DEVELOPMENT DEGRADATION (43)	MINING POLLUTION (45)	HEAVY METALS POLLUTION (50)	PESTICIDE POLLUTION (51)	GENERAL POLLUTION (53)	MANAGEMENT TECHNIQUES (60)	BASIC SURVEYS (62)	TOTALS	
ALABAMA					23			6	2			6			38	38				38					6									46	203	AL
ALASKA	61			14	76		25	6	5		195	54		156	246		41			9			10										306		1,205	AK
ARIZONA	18				120			7							38	881			115																1,179	AZ
ARKANSAS												12				3																		11	26	AR
CALIFORNIA				65				37				93			448				9	14				63										236	965	CA
COLORADO				2	14	12			41			124			40	420				9									4					72	738	CO
CONNECTICUT																																		134*	134	CT
DELAWARE					53				4						5	17			9						8										96	DE
FLORIDA								2				26				149			20											18				9	224	FL
GEORGIA								13	4		6	6			46	147			76	3										6			10	8	325	GA
HAWAII	5				67													20																62	154	HI
IDAHO				36	69									112	340	32												169	111					471	1,340	ID
ILLINOIS					3				87	16	31			4	21	169			16	13						6				18				129	513	IL
INDIANA	9				22			14			1	27			7	102		13	12																207	IN
IOWA					22				7						55	83	27		7	11													8	23	243	IA
KANSAS			32	16											59	116																		53	276	KS
KENTUCKY				9								8				216																		8	241	KY
LOUISIANA								20							90	5			39					7										241	402	LA
MAINE																10																		429*	439	ME
MARYLAND						28			3		3					37			14															61	146	MD
MASSACHUSETTS	4		1	11	8				5						12	27														2					70	MA
MICHIGAN	46	148		21			69	16							34	131							143											37	645	MI
MINNESOTA																				53															53	MN
MISSISSIPPI									6		27		17			162																		38	250	MS
MISSOURI																18																		656*	674	MO
MONTANA	35				113										975	249											43							380	1,795	MT
NEBRASKA						19					9				51	158				15													48	117	417	NB
NEVADA	492														67				12															139	710	NV
NEW HAMPSHIRE	25				8			8			25	12			37	57			26	3														29	230	NH
NEW JERSEY			11												18	24														9				48	110	NJ
NEW MEXICO					26																													848*	874	NM
NEW YORK	247	32	2	178	38		6								34	124				122		42								20			6	353	1,204	NY
NORTH CAROLINA		2										10				109			89														10	125	345	NC
NORTH DAKOTA				12		24		1			26	33			12	274	8	30	20	38				19	20									137	654	ND
OHIO	10															260			26						5										301	OH
OKLAHOMA																																		540*	540	OK
OREGON	84										22				150					170													16		442	OR
PENNSYLVANIA																																			-	PA
RHODE ISLAND	37														45																			25	107	RI
SOUTH CAROLINA												6			3	48			20				22										10		109	SC
SOUTH DAKOTA									10			13			15	152																			190	SD
TENNESSEE	66											6		35	5	249			77	31															469	TN
TEXAS	210						6		15	167					27	812			23	20								20							1,300	TX
UTAH					320			58								8				80			10	60	24		2	26					61	383	1,032	UT
VERMONT					12			7							53	22				5													6		105	VT
VIRGINIA		16		28	11			13				49			54	10					7						21					7	16	105	337	VA
WASHINGTON				194												97		68																228	587	WA
WEST VIRGINIA				12								6			2	5																		81	106	WV
WISCONSIN	6				14			7			31				20	106	16		57				11		8						6		21	22	325	WI
WYOMING															580														13					54	647	WY
AMERICAN SAMOA																																				AS
GUAM															19																			77	96	GU
PUERTO RICO															46																				46	PR
VIRGIN ISLANDS				5							4		4																					32	45	VI
TOTAL	1,355	198	46	603	1,019	83	106	215	189	183	380	491	21	307	3,692	5,527	92	131	667	634	7	42	196	149	71	6	66	215	124	73	6	7	518	6,447	23,870	TOTALS

* This data was obtained directly from the appropriate Regional Office.

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